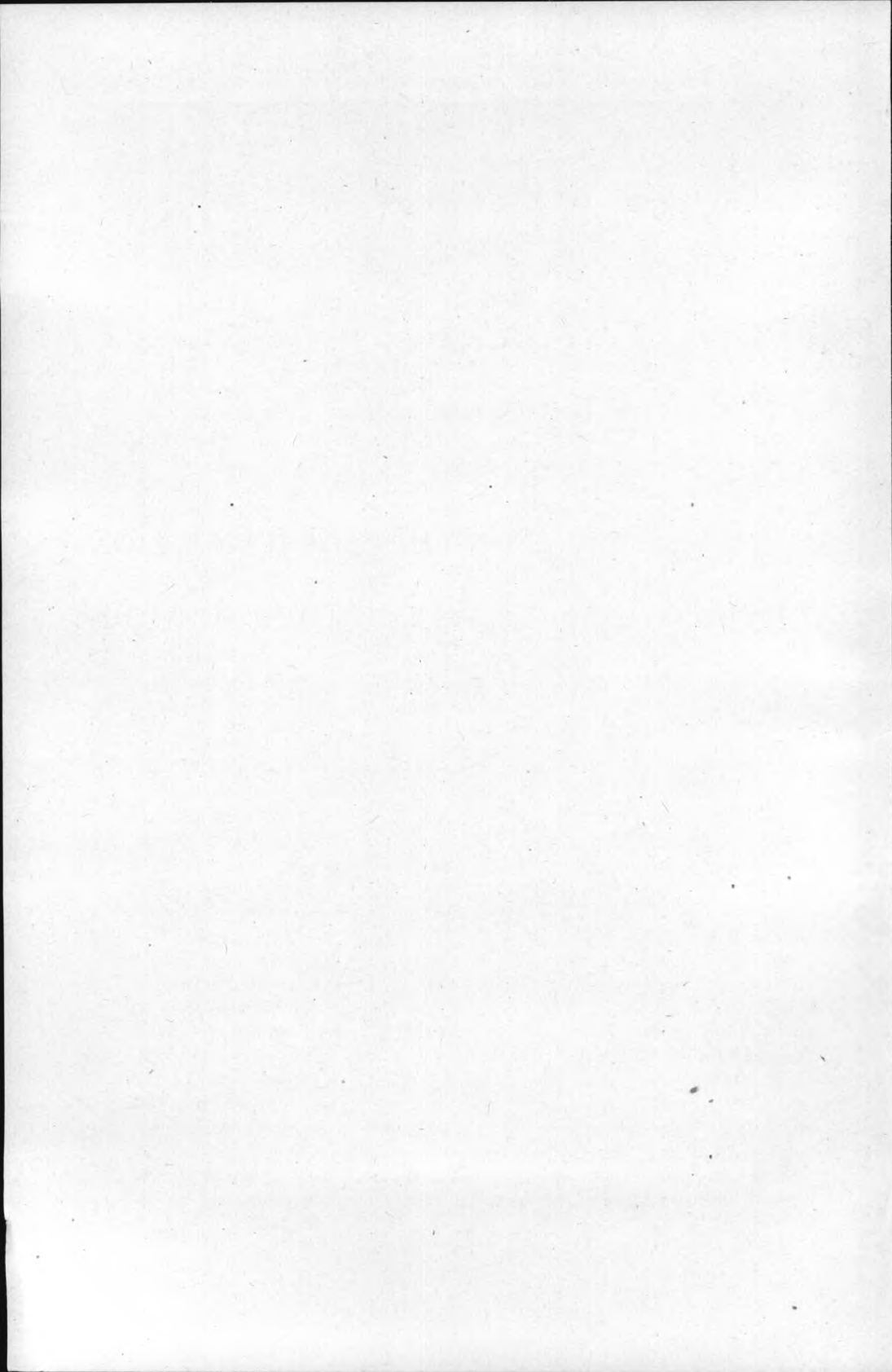


ANNOUNCEMENT OF THE SUMMER SESSION
UNIVERSITY AND STATE SUMMER SCHOOLS

JULY 1—AUGUST 9, 1946



CORNELL UNIVERSITY through its six-week Summer Session offers unusual opportunities for study at the graduate and undergraduate levels. Instruction is provided mainly by the faculties of the Graduate School; the Colleges of Arts and Sciences, Agriculture, and Home Economics; the School of Education; and the Department of Hotel Administration. The facilities of the University are available to Summer Session students: libraries, classrooms and laboratories, residence halls, dining rooms, and cafeterias; health and infirmary services; student union, playing fields, and recreational areas.

Programs and courses of instruction are planned with several groups in mind. Undergraduates may choose from a wide selection of courses in the humanities, history and the social sciences, and the natural sciences. Advanced courses, supplemented by seminars and informal study, also are offered in most fields. Workshops, seminars, and professional courses have been planned to meet the needs of teachers, supervisors, and administrators.

VETERANS IN THE SUMMER SESSION... Veterans eligible for benefits under the G. I. Bill (Public Law 346, as amended December 28, 1945) may use those benefits for Summer Session work. Eligibility should be established well in advance of registration day. Upon presentation of a certificate of eligibility and entitlement or terminal leave order at registration time, tuition, fees, books, and supplies will be charged to the Veterans Administration, up to the maximum allowed by the law, which is about \$88.

Veterans who have not established eligibility at the time of registration may be required to pay tuition, and fees, and charges for required books and supplies. These payments will then be refunded to them when their certificates of eligibility and entitlement are filed. Representatives of the Veterans Administration at the University will help veterans who have not established their eligibility to make the necessary applications. Original discharge papers or certified copies of them, and, in the case of married veterans, legal proof of marriage, must be furnished at the time of making application.

Veterans eligible for vocational rehabilitation training under Public Law 16 should arrange in advance for the transfer of their cases to the

Batavia, N. Y., office of the Veterans Administration. On arrival they should report at once to the Training Officer who will advise them on further procedure.

Veterans who hold New York State War Veterans Scholarships and Canadian Veterans eligible for education benefits under P. C. 5210 should present evidence of their eligibility at registration time.

All veterans who wish to use educational benefits from any of these sources must register in the University Office of Veterans Education on registration day, or as soon as possible after that date. Late registrants run some risk of receiving only partial benefits.

ADMISSION

Application for admission to the Summer Session of 1946 must be made on the special form printed on the last pages of this Announcement. In most cases the information called for on this form will be sufficient. Junior standing or above is required of undergraduates registered in institutions other than Cornell University. In addition, they will be required to submit evidence of good standing and approved programs of study before they are admitted. *Applications should be filed as early as possible*, and late applicants who are admitted may unavoidably be delayed in registration. *A certificate of admission signed by the Director is a prerequisite for registration in the Summer Session.*

The work of the Summer Session is planned to place the facilities of the University at the disposal of those persons who can use them to good advantage and for serious purposes during the summer period. Admission, however, cannot be granted to persons inadequately trained for the work they propose, or whose records in Cornell University or elsewhere are unsatisfactory; neither will admission be granted to persons whose purposes seem inadequate or inappropriate or better served by other work at other institutions. All applications will be acted upon promptly, but early application is urged.

Admission of undergraduate or graduate students to Summer Session study establishes no priority with respect to admission to the regular terms under the quotas now in effect. Students seeking admission to an undergraduate college in the fall should apply to the Director of Admissions. Admission to the Graduate School is handled by the Dean of the Graduate School.

ADMISSION TO THE GRADUATE SCHOOL... A student planning to become a candidate for an advanced degree from Cornell University must also apply for admission to the Graduate School. For this, two requirements are made: (1) the applicant must have received a baccalaureate degree from a college or university of recognized standing, or must have done work equivalent to that required for such a

degree; (2) as judged by his scholastic record, or otherwise, the applicant must show promise of ability to pursue advanced study and research.

A student who wishes to enter the Graduate School should file application for admission, together with all the required supporting credentials, in the Office of the Dean of the Graduate School by June 1 if possible and not later than June 20. Application must be made on the formal blanks obtainable from the office of the Graduate School, and must be accompanied by complete and official transcripts of the student's previous training.

Because of the time required to secure and evaluate transcripts and other records, a period of two to four weeks usually elapses between the receipt of an application and formal action upon it. Every effort will be made to render decisions promptly, and applicants can assist materially by making early applications.

Students planning to apply for admission to the Graduate School should read the section on the Graduate School beginning on page 9. Further information is given in the Announcement of the Graduate School, which will be sent by the Dean of the Graduate School upon request.

REGISTRATION

Registration for the Session of 1946 will take place on Monday, July 1, in Barton Hall; the hours for registration will be from 8:30 a.m. to 12:30 p.m. and from 1:30 p.m. to 4 p.m. Students are urged to register on this day. Advance registration, either in person or by mail, cannot be arranged.

Registration is required for admission to any of the exercises of the Summer Session. In addition, all students must register with the Dean of Students. Registration of automobiles to be driven in and about Ithaca by Summer Session students is also required.

REGISTRATION IN THE GRADUATE SCHOOL... Students who wish to obtain credit toward the advanced degrees of Cornell University for Summer Session work must arrange for admission to the Graduate School by correspondence in advance. They will then, on registration day, register in the Graduate School. Students whose applications and credentials for admission to the Graduate School are received after June 7 but before June 20 may not be able to register in the Graduate School on registration day, July 1. They may register in the Summer Session on that day and, after consulting members of the faculty in their proposed fields of graduate study, begin at once their programs of work. They will register in the Graduate School in Morrill Hall immediately after receiving notice of favorable action on their applications:

GRADUATES NOT REGISTERING IN THE GRADUATE SCHOOL... Students registered in the Graduate Schools of other insti-

tutions and planning to obtain credit toward the advanced degrees from those institutions by their Summer Session work do not register in the Graduate School. Before registering in the Summer Session they should arrange for the crediting of their Summer Session work by the institutions from which they plan to take the degrees. Other students who hold bachelors' degrees but are not candidates for advanced degrees also register in the Summer Session only.

PROGRAMS... Except by permission of the Director, all students are required to register for courses amounting to four semester hours as a minimum program. The normal program is six semester hours and students are advised against registering for more; the maximum program is eight semester hours.

Undergraduates are required to register for a program of six semester hours unless permission for a lighter program is granted by the Director. The program of a Summer Session student who is also registered in the Graduate School of Cornell University is determined by his special committee.

REGISTRATION FOR ATTENDANCE... Under certain circumstances teachers and other mature students, not candidates for degrees, may receive permission to register for some or all of their courses for attendance only. Students so registered are required to attend regularly and to perform the class work of the courses, but they will not be permitted to take the final examinations. They will receive no credit for these courses but may secure certificates of attendance in courses so registered for. Registration for attendance cannot be changed to registration for credit after the second week of the Session.

LATE REGISTRATION... Students reaching Ithaca on July 2 or later will register at the following times and places: all students, at the office of the Summer Session, *between 9 a.m. and 4 p.m.*; graduate students, also with the Dean of the Graduate School at his office in *Morrill Hall, at the same hours*; all women students, also with the Counselor of Students at *1 Sage Avenue, between 9 a.m. and 4 p.m.*; owners and drivers of automobiles, also with the Campus Patrol Office, *between 8:30 a.m. and 4:30 p.m.* Graduate Students who expect to receive residence credit toward an advanced degree for Summer Session work should register with the Dean of the Graduate School within the first week of the Session.

CHANGES OF REGISTRATION... All changes of registration after Monday, July 1, must be made in the Summer Session office, 251 Goldwin Smith Hall. Except by permission of the Director, no changes of registration may be made after Thursday, July 4.

AUDITORS... Admission to classrooms during the Summer Session is restricted to students registered for the Session. A student thus duly registered may occasionally visit any class; but if he wishes to attend regularly classes for which he is not registered, he must secure an auditor's permit. Such permits will be granted whenever the student can show a serious purpose in such attendance. Auditors are not required to take part in the work of the courses which they visit, and certificates of attendance cannot be issued to them.

Auditor's permits cannot be issued on registration day; they may be secured on Tuesday, July 2, and later, at the Summer Session office.

WITHDRAWAL FROM THE SUMMER SESSION... A student may arrange for withdrawal at any time by cancelling his registration at the Summer Session office, 251 Goldwin Smith Hall. In such cases, the Treasurer may refund a part of the tuition fee or cancel a part of the obligation that the student has incurred for tuition, provided the reason for the withdrawal is stated in writing and is satisfactory to the Treasurer and the Registrar. In such cases the student is required to pay twenty per cent of the term's tuition for each week or fraction of a week between the first registration day and the date of his certificate of withdrawal, *unless the withdrawal is made before noon on Thursday, July 4.*

ACADEMIC CREDIT

All courses offered in the Summer Session, excepting some of the unit courses of one or two weeks in length, are accepted for credit in one or more of the Schools and Colleges of the University, when taken by matriculated students in these Schools and Colleges. No student may receive credit for more than eight semester hours for work done in a single Summer Session.

UNDERGRADUATE AND GRADUATE COURSES... There is, in general, no sharp distinction at Cornell University between undergraduate and graduate courses. In this announcement each course is marked immediately after the title in one of three ways:

Undergraduate. These courses are intended primarily for undergraduates. Students registered in the Graduate School of Cornell University will not receive credit for these courses toward an advanced degree unless such credit is specifically recommended by the special committee in charge of their work.

Graduate. These courses are intended primarily for students who are candidates for advanced degrees, and for teachers and others who wish certification to accrediting agencies for work done at the graduate level. Undergraduates with adequate preparation may register for these courses only after receiving permission from the instructors in charge.

Undergraduate and graduate. These courses are open to graduates and advanced undergraduates. Graduates registering for these courses who are candidates for advanced degrees or who wish certification to accrediting agencies for work done at the graduate level must indicate on their registration blanks their intention to complete the course at the graduate level and must be prepared to do any additional work that may be required.

COLLEGE OF ARTS AND SCIENCES....To obtain credit towards the Bachelor of Arts degree for work done in a Cornell Summer Session, a student must previously have filed with the University Director of Admissions credentials covering the entrance requirements of the College of Arts and Sciences. He should then, in advance of Summer Session registration, secure the Dean's approval of his selection of courses. The academic requirements for the degree of Bachelor of Arts are explained in detail in the *Announcement of the College of Arts and Sciences*.

The Summer Session records of students registered in the College of Arts and Sciences are reviewed by the usual standing committees of the College, and poor records in the Summer Session are liable to bring the same penalties as in the regular University session.

COLLEGE OF ENGINEERING....Students in the College of Engineering who desire to offer work done in the Summer Session toward requirements for graduation should consult the Director of the School in which they are regularly registered before registering in the Summer Session. Students not yet matriculated in the College of Engineering, but planning to enter it, may obtain information about its requirements by applying to the Dean of the College of Engineering.

STATE COLLEGE OF AGRICULTURE....Students in the State College of Agriculture must consult with Dr. J. P. HERTEL, Secretary of the College, and must obtain his approval of the proposed program of courses if credit in that College is to be secured.

DEPARTMENT OF HOTEL ADMINISTRATION....Students in the Department of Hotel Administration who desire to offer work done in the Summer Session towards requirements for graduation should consult Professor MEEK of that department before registering in the Summer Session.

INSTITUTIONS OTHER THAN CORNELL UNIVERSITY....

The foregoing regulations apply to undergraduate students matriculated at Cornell University. Undergraduates enrolled in other institutions, before admission to the Summer Session, will submit a program of courses approved for credit by an officer of the institution in which they are candidates for a degree. On registration day they will register

for the courses of this program, and changes may be made only by permission of the Director. At the end of the Session, an official transcript of the Summer Session record of each undergraduate student will be sent to the institution in which that student is registered as a candidate for a degree. The Cornell Summer Session can assume no responsibility for the use to be made of credits earned by students coming from other institutions. The transcripts mentioned above will show what courses have been taken, the amount of credit in semester hours, and the grades.

CERTIFICATE OF SUMMER RECORD... At the close of the Session transcripts of the records of all undergraduates enrolled in other institutions will be sent to the registrars of those institutions. Other Summer Session students may receive certificates of attendance or of work performed, with grades, upon request. Application for certificates should be made at least three days before the end of the Session, and the applicant must leave at the office of the Registrar a large-sized envelope stamped and directed to his home address. The certificate will then be forwarded by mail.

THE GRADUATE SCHOOL

APPLICATION FOR ADMISSION... A student planning to apply for admission to the Graduate School should write at once to the Dean of the Graduate School for a copy of the Announcement of that School and for the blanks required for applications for admission. The Announcement gives full information about the advanced degrees granted by Cornell University, including the language requirements for admission and for some of the advanced degrees; residence and course requirements; and other information not given in the following sections.

Applications for admission to the Graduate School should be filed by June 1 if possible and not later than June 20. After admission to candidacy for a degree, the student may write in advance of the opening of the Session to professors whose courses he plans to take. In this way it is possible to secure advice with regard to major and minor subjects, or fields of concentration, and information about course requirements in specific fields, and to avoid delay and interruption of work at the opening of the Session.

REQUIREMENTS FOR MASTERS' DEGREES... The requirements for the degrees Master of Arts, Master of Science, and Master of Science in Agriculture consist of three parts: (1) a minimum period of residence; (2) completion of such courses and other work (under Plan A, including a thesis) as may be specified by a special committee selected by the student to direct his work; (3) competence in scholarship, tested by a final comprehensive examination.

RESIDENCE REQUIREMENTS... The minimum residence requirement for the Masters' degrees mentioned above is two semesters of residence at Cornell University. This minimum requirement may be satisfied by five Summer Sessions of six weeks, or one semester and three Summer Sessions of six weeks, at Cornell University. With some restrictions, residence credit to the amount of one Summer Session will be allowed for a succession of unit courses of two or three weeks in length taken in different summers. Candidates for these degrees who are in residence during Summer Sessions are also expected to continue their studies during the year under the direction of the chairman of the special committee in charge of their work.

SUBJECT MATTER REQUIREMENTS... The subject matter requirements for the Masters' degrees mentioned above may be satisfied in two ways. Each student, when applying for admission to candidacy for a Master's degree, should indicate which of these two plans of work he wishes to follow:

PLAN A... The candidate selecting this plan chooses a major subject of rather limited scope (e.g., French Literature, American History, Botany, Physical Chemistry) to which he plans to devote the greater part of his time. He also selects a minor subject properly related to the major subject. He then selects from the faculty of the Graduate School a member to represent each of his subjects; these constitute his special committee, and the representative of the major subject acts as chairman. The candidate then files with the Dean of the Graduate School a statement of his major and minor subjects approved by the members of his special committee. This statement must be filed within one week after registration.

The candidate then and from time to time thereafter confers with the members of his special committee, and with their help outlines a program of work which meets the requirements for the degree he expects to earn. These requirements will include achievement in independent investigation supported by a thesis acceptable to the student's special committee. In addition to course examinations, the candidate is required to pass a final examination comprehending the thesis and the major and minor subjects.

PLAN B... The candidate selecting this plan chooses a field of concentration of broader scope (e.g., Biological Sciences, Social Studies, English, Foreign Languages, Home Economics), to which he plans to devote at least half of his time. He also selects a group of subjects within which he plans to distribute the remainder of his work. He then selects two members of the faculty to serve as his special committee. One of these, who is chairman of the committee, represents the field of concentration; the other may be chosen from either that field or some related

field, depending on the candidate's program. The candidate then files with the Dean of the Graduate School a statement of his field of concentration approved by the members of his special committee. This statement must be filed within one week after registration. The candidate then and from time to time thereafter confers with his special committee, and with their help outlines a program of work which meets the requirements for the degree he expects to earn.

The subject matter requirements under this plan include the satisfactory completion of approved studies carrying a minimum of thirty semester hours of credit, of which approximately one half will be in the field of concentration and the rest will be variously distributed with the sanction of his special committee. Work acceptable within the field of concentration must be devoted in substantial part to studies requiring original investigation, organization, and criticism on the part of the student. The candidate is not required to present a formal thesis; but if he does not do so, he is required to complete an expository or critical essay, or a problem in research, to the satisfaction of his special committee. In addition to course examinations, the candidate is required to pass a final examination comprehending the field of concentration and the distributed studies.

REQUIREMENTS FOR THE DOCTOR'S DEGREE.... The requirements for the Doctor's degree include a reading knowledge of French and German, or two other foreign languages approved by the student's committee and tested by a special examination. A major subject and two minor subjects are chosen, and a thesis is always required. The residence requirement for the Doctor's degree may, upon recommendation of the student's special committee, be fulfilled in part by attendance during the Summer Session. For this purpose, three six-week Summer Sessions will be regarded as the equivalent of one semester, and five six-week Summer Sessions as the equivalent of one year.

Candidates for the Doctor's degree should in all cases consult the *Announcement of the Graduate School* for a more complete statement of the requirements.

COMPLETION OF REQUIREMENTS.... Candidates for advanced degrees who expect to complete requirements and to take their final examinations at the end of a Summer Session should call at the office of the Graduate School not later than the third week of the Session for the necessary instructions and blanks.

REGISTRATION FOR RESIDENCE CREDIT.... To obtain residence credit in the Graduate School for Summer Session work the student must register both in the Summer Session and in the Graduate School; and such registration must be completed within the first week of the Session.

CANDIDATES IN THE SCHOOL OF EDUCATION... The School of Education in its administration of graduate work functions as a division of the Graduate School of the University with the same requirements for admission except as to foreign languages. Two professional degrees are offered. (1) The degree of Master of Education (M.Ed.) is intended primarily for those who complete, through a newly-established five-year program, the pre-service requirements for admission to teaching. (2) The degree of Master of Science in Education (M.S. in Ed.) is intended primarily for those who already hold certificates to teach but who wish to prepare themselves for some specialized form of educational service, such as administration, supervision, or guidance. In general, the program does not demand the extensive research required of a candidate under Plan A of the regular Master's degree and permits a broader selection of courses. For further information regarding the requirements for these degrees, consult the *Announcement of the School of Education*, which will be sent upon request.

NON-CANDIDATES... A student admitted to the Graduate School as a non-candidate selects an adviser to direct his work. He then files with the Dean of the Graduate School not later than one week after registration a statement, approved by his adviser, of the studies he plans to pursue.

RESIDENT DOCTORS... Persons who hold a Doctor's degree or have equivalent standing may, subject to permission from the Dean of the Graduate School, register as resident doctors to carry on advanced work in their special fields of study. Upon recommendation of the Dean of the Graduate School resident doctors are exempt from the payment of tuition and all other fees except the Library and laboratory fee. Ordinarily, resident doctors may not attend courses.

FEES

All fees are due and payable at the Treasurer's office in Morrill Hall on registration day, July 1. The last day for payment of fees without penalty is Friday, July 5.

TUITION FEES... The tuition fee for the Summer Session is \$60. Students taking unit courses for less than six weeks will pay tuition at the rate of \$12 a week. If unit courses extending through six weeks are taken, the tuition fee will be \$60. Special fees are charged for individual instruction in music, tennis, and other subjects.

MATRICULATION FEE... A matriculation fee of \$11 is charged if the student is registering for the first time in the Graduate School of Cornell University, unless the student, as an undergraduate in Cornell University, has already paid this fee. A student registering in the Sum-

mer Session but not in the Graduate School does not pay this fee unless he is at the same time registering for the first time as a candidate for a degree from one of the other Schools or Colleges of the University. For further information about this fee, the *General Information* number, which may be obtained from Cornell University Official Publication, 124 Roberts Place, upon request, should be consulted.

OTHER FEES AND DEPOSITS. . . . All Summer Session students will also pay a health service and infirmary fee of \$4.50. The services furnished for this fee are described on page 17.

A deposit of \$5, refundable when all books have been returned, is required for the withdrawal of books from the University library.

Laboratory, shop, field-trip, and incidental fees are charged for materials used and for other expenses in certain courses. The amounts of these fees are specified in the descriptions of the courses in which they are charged.

Deposits refundable upon return of apparatus, etc., are required in certain courses. The amounts of these deposits are specified in the descriptions of the courses in which they are charged.

A fee of 10 cents a period is charged for the use of the University swimming pool in Beebe Lake, adjacent to the campus.

OTHER REGULATIONS CONCERNING FEES. If a student withdraws from the Summer Session, the Treasurer may refund a part of the tuition fee or cancel a part of the obligation that the student has incurred for tuition, provided the reason for the withdrawal be stated in writing and be satisfactory to the Treasurer and the Registrar. In such cases the student is required to pay twenty per cent of the term's tuition for each week or fraction of a week between the first registration day and the date of his certificate of withdrawal *unless the withdrawal is made before noon on Thursday, July 4.*

Students registering at any time during the last five weeks of the Session are required to pay for the remainder of the term at the rate of twenty per cent of the term's tuition for each week or fraction of a week between the date of registration and the last examination day of the term.

Any student, graduate or undergraduate, except as hereinafter provided, who fails to pay his tuition, fees, and other indebtedness, or, if entitled to free tuition fails to claim the same at the Treasurer's office and pay his fees, within the time prescribed by the University, is thereby dropped from the University. When in his judgment the circumstances in a particular case so warrant, the Treasurer may allow an extension of time to complete payments. For such extension, the student will be assessed a fee of \$2. A reinstatement fee of \$5 will be assessed in the case of any student who is permitted to continue or return to classes

after being dropped from the University for default in payments. For reasons satisfactory to the Treasurer and the Registrar, which must be presented in writing, the above assessment may be waived in any individual case.

Any tuition fee or other fee may be changed by the Trustees to take effect at any time without previous notice.

SPECIAL REGULATIONS

CONDUCT AND SCHOLARSHIP... The Summer Session is conducted under the general regulations governing conduct and scholarship which apply to all sessions of the University. Students are expected to familiarize themselves with dormitory and other rules and to abide by them.

The University rules governing student conduct are:

"A student is expected to show both within and without the University unflinching respect for order, morality, personal honor, and the rights of others. The authority to administer this rule and to impose penalties for its violation is vested in the University Committee on Student Conduct. The rule is construed as applicable at all times, in all places, to all students of the University."

"A student may at any time be removed from the University if, in the opinion of the Committee on Student Conduct, his presence is not conducive to the University's best interests."

The officers of the University also reserve the right to cancel the registration of any student at any time for neglect of scholastic duties.

AUTOMOBILE REGULATIONS... Because of local traffic and parking conditions it is necessary to require registration of both motor vehicles and their drivers during the Summer Session as well as during the academic year. Each student who maintains or operates a motor driven vehicle in or about Ithaca during the Summer Session must do the following: (1) register with the Campus Patrol Office, Old Armory, at the time of registration; (2) if under 21 years of age, have written consent of his parent or guardian; (3) produce evidence that he may drive in New York State and that the vehicle may be driven there; (4) produce evidence that the vehicle is insured at the standard minimum of \$5,000 — \$10,000 — \$1,000. If circumstances warrant it, he may get a campus parking permit. The fee is \$1. Motorcycles may be registered but may not be used on the campus during class hours. Trailers are not allowed on any University property.

CASHING OF CHECKS... The Treasurer of the University accepts checks in settlement of charges payable at his office, but a rule of the Board of Trustees forbids him to cash any credit instrument, even to the extent of accepting a check or draft in amount greater than the sum

due and returning the excess in cash. Students are therefore advised to open an account in an Ithaca bank as soon as they arrive in town, or else provide themselves with travelers' checks, drafts on New York City banks, money orders, or other form of credit instrument such as a bank will cash in the ordinary course of business.

FOREIGN STUDENTS

The University maintains on its staff a Counselor to Foreign Students whose duty is to look after the welfare of all students from other countries. It is suggested that all foreign students write to him before coming to Ithaca, or call upon him soon after arrival. He will be glad to help them find suitable living quarters and assist them with introductions. Letters of this kind should be addressed to Mr. DONALD C. KERR, Counselor to Foreign Students, Cornell Cosmopolitan House, 301 Bryant Avenue, Ithaca, N. Y.

LIVING ACCOMMODATIONS

UNDERGRADUATE WOMEN... All undergraduate women and all other students under twenty-one years of age are required to live in Residential Halls or sorority houses and to take their meals there. The Balch Halls and Prudence Risley Hall and other dormitory space as required will be available. For board and room and an allowance of personal laundry there is a uniform charge of \$112.50 for the six weeks' Summer Session.

GRADUATE WOMEN... Graduate women students may secure rooms in the dormitories and cottages of the University not required by undergraduates or in other residences approved by the Counselor of Students. A list of approved residences is prepared about June 1, and may be obtained upon request to the Counselor of Women's Office, 1 Sage Avenue. The charge for graduate women in University operated dormitories includes room and laundry allowance only and varies with the room selected. Meals may be obtained in University operated cafeterias.

GRADUATE AND UNDERGRADUATE MEN... Rooms in Residential Halls for men will be available upon application. The Department of Residential Halls also maintains an office for assisting students in finding off-campus accommodations. Information may be secured by writing the Office of Residential Halls, Morrill Hall, Ithaca, N. Y. The cost of rooms ranges from \$4 to \$8 a week, depending upon the desirability and location of the room.

APPLICATION FOR ROOMS.... Applications for rooms should be made by filling out the official application form which will be sent with notice of provisional acceptance from the Summer Session office. Floor plans and other information about rooms may be obtained by addressing the Office of Residential Halls, Morrill Hall, Ithaca, New York.

OPENING DATE.... All residential halls and cottages for men and women may be occupied on the night of Sunday, June 30; earlier occupancy will not be possible.

HEAD RESIDENTS.... The Head Residents in charge of the halls are glad to know the students, to advise them in illness or other emergency, and to give them whatever information they wish about the University or the town. It is understood that persons living in the halls will conform to the house regulations made for the convenience and comfort of all.

Application for rooms should state the exact dates of the proposed attendance at the University.

DEPOSITS WITH APPLICATIONS.... A deposit of five dollars must accompany each application for a room in any of the residential halls for the Summer Session; otherwise the application will not be entertained. The rooms are reserved in the order of application. If a room assigned is occupied by the applicant, the amount of the deposit is held until the end of the Session to cover the return of keys and any damage to building or furniture other than ordinary wear and tear, and to insure the completion of the lease. The deposit will be refunded if the applicant gives formal notice to the Manager on or before June 15 that the applicant wishes to withdraw the application.

Checks should be drawn to the order of Cornell University.

DINING ROOMS, CAFETERIAS.... The dining facilities of Willard Straight Hall and the cafeterias in Martha Van Rensselaer Hall are open to both men and women students. Board may be obtained at these places and at cafeterias, dining rooms, and restaurants near the campus at \$1.50 to \$2 a day.

HOUSES AND APARTMENTS.... Information on houses and apartments for rental may be secured by writing the Office of Residential Halls, Morrill Hall, Ithaca, New York. In view of the current housing shortage in Ithaca, all students who desire houses or apartments are urged to come to Ithaca in advance of registration to secure quarters. Few listings will be available.

COST OF LIVING.... An estimate of the cost of living in Ithaca in the summer can be made by consulting the figures given above. In private houses rentals vary according to the location. Rooms are rented with the understanding that they will be occupied for the entire Session

unless both parties agree otherwise. Table board is generally engaged by the week.

MEANS OF SELF SUPPORT . . . Opportunities are available for those students, both men and women, who wish to work for their board in the residential halls department; applications for such work should be addressed to the Manager of Residential Halls. Applications from women students for other kinds of work should be addressed to Miss Lucile Allen, Counselor for Women. Men who want other kinds of work should write to the University Placement Bureau, Willard Straight Hall, Ithaca, New York.

LIBRARIES

THE UNIVERSITY LIBRARY is open on week days from 7:50 a.m. to 10 p.m., except Saturday when it closes at 5 p.m. In this building are the main library, containing about 900,000 volumes, and most of the seminaries and special libraries. Students properly qualified are allowed the use of the seminary rooms and the books in them. The main collection is primarily a library of reference for use in the building. Students are, however, to a limited extent, allowed to take out books for home use. Persons wishing this privilege must make a deposit of \$5, which will be refunded upon the return of all books taken out.

THE LIBRARY OF THE NEW YORK STATE COLLEGE OF AGRICULTURE, in Stone Hall, is open on week days from 8:00 a.m. to 10:00 p.m. except on Saturday when it is closed at 5:00 p.m. In it will be found the bulletins and reports of the U. S. Department of Agriculture and of the State Experiment Stations together with the publications of State Boards of Agriculture, Horticultural Societies, etc. Similar publications are received from nearly all foreign countries. In addition to these, the principal periodicals relating to Agriculture throughout the world are subscribed for and preserved for reference. The entomological library in Comstock Hall is one of the most complete of its kind in the United States. Nearly all of the departments in which instruction is given have extensive well-selected departmental libraries.

THE LIBRARY OF RECORDED MUSIC and scores to parallel these recordings are available in the Music Building for the use of the general student body. This library may be used in the Music Building only, during the hours 9 a.m. to 5 p.m. daily, and 7 p.m. to 9:30 p.m. Monday, Wednesday, and Friday, and on Sunday afternoons from 2 p.m. to 5 p.m.

HEALTH SERVICE

The Student Medical Clinic at 7 Central Avenue will be available for all registered Summer Session students. Hours for civilian students

at the Clinic will be from 9 a.m. to 12 m. and from 2 p.m. until 4:30 p.m., except Saturday and Sunday. Saturday hours at the Clinic will be from 9 a.m. until 12 m.; Sunday, from 10 a.m. to 11 a.m. A nurse will be in attendance daily from 12 m. until 2 p.m. weekdays, except Saturday. Those desiring to consult a physician after 5 p.m. week-days, on Saturday afternoons, or on Sunday for an illness or accident of emergency nature may go directly to the Cornell University Infirmary. The night service is not intended for the use of those who could visit the Clinic during the day.

Emergency room call service will be available at a charge of three dollars for night visits and two dollars for day visits. Requests for room visits will be cleared through the Student Medical Clinic, 3331-2336, during the day and through the Infirmary switchboard, Ithaca 2747, after 5 p.m. on weekdays, Saturday afternoons, and Sundays. Patients requiring more than one emergency visit for any one illness will not be treated in their rooms but will be requested to go to the Infirmary.

The Infirmary is a modern hospital and is approved by the American College of Surgeons. It will be available for Summer Session students. Two days' bed, nursing, and ordinary medical care will be granted without extra charge to each student registered in the Summer Session. Per diem rates in the Infirmary for registered students beyond the exemption period will be two dollars in a ward and three dollars in a room. There will be no additional charge for extended ordinary medical care.

If a student, while in the Infirmary, wishes to avail himself or herself of a private physician from the visiting staff, he or she is at liberty to do so. A student may also receive medical care from private physicians from the city of Ithaca rather than consult the Clinic. In either case this service is not included in the health fee.

RECREATION AND PUBLIC EVENTS

WILLARD STRAIGHT HALL, the student union of Cornell University, contains lounges for men and women, rooms for student meetings, for games and for dancing, the University Theatre where motion pictures and dramatic productions are given each week, a billiards and game room, a barber shop for men, a browsing library well stocked with books of general interest, and a music and art room. On the upper floors of the Hall are sleeping rooms used principally by parents and guests of students, by alumni, and by guests of the University.

Willard Straight Hall is for the use of members of the University; but guests of members may secure guest cards for limited periods upon application to the Director of the Hall.

LECTURES. . . . A public lecture, open to all Summer Session students, is given each Wednesday evening of the Session. Both non-resident

lecturers and distinguished members of the faculty will take part in the series, and the subjects are chosen for their general interest and timeliness.

SAGE CHAPEL... Religious services are conducted in Sage Chapel throughout the academic year by clergymen of various religious denominations. There will be services in the Chapel on five Sundays during the Summer Session, July 7 to August 4 inclusive.

CONCERTS... A series of evening concerts will be given in Bailey Hall during the Summer Session. The dates and programs will be announced in the Weekly Calendar.

CHORUS... All members of the Summer Session who are interested in singing in a chorus of mixed men's and women's voices are asked to meet in the choir loft of Sage Chapel on Wednesday afternoon, July 3, at 5 o'clock. At this time a schedule of rehearsals will be arranged in accordance with the desires of those interested. The chorus will be directed by Professor PAUL J. WEAVER.

ORCHESTRA... An orchestra will rehearse regularly during the Summer Session and will play one concert. Members of the Summer Session who wish to join this organization should apply to Associate Professor KUYPERS at Barton Hall on Monday, July 1, or at his office in the Music Building, 320 Wait Avenue, as soon thereafter as possible.

SUMMER THEATRE... During the Summer Session performances are given by the Summer Theatre Company on Friday and Saturday evenings. The performances are given in the theatre of Willard Straight Hall; an admission charge is made. The plays to be produced will be announced each week in the Weekly Calendar.

The plays of the Summer Theatre Company are under the general direction of Professor DRUMMOND, assisted by members of the Direction Staff. Competition for places in the cast and production staffs is restricted to persons regularly enrolled in the Summer Session or Summer Term. Detailed announcements will be made in the various classes in Drama.

FILMS... Museum of Modern Art Film programs and noteworthy recent European and American art and documentary films will be presented weekly by the Summer Theatre. Tickets will be on sale in Willard Straight Hall.

SPORTS... Tennis courts, conveniently located about the campus, are available for use without fee. Private lessons in tennis and golf are offered by members of the Department of Physical Education; tennis, badminton, and golf tournaments and a swimming meet are arranged as part of the recreational program of the Summer Session. A nine-hole

golf course is operated by the Department of Physical Education and Athletics; for information about conditions for its use and fees, address Mr. R. J. KANE, Schoellkopf Building, Cornell University. A gorge at one end of Beebe Lake, on the campus, forms a natural swimming pool, where a guard is on duty every day of the Session.

WEEKLY CALENDAR

A Weekly Calendar is issued and posted on each Saturday of the Summer Session. This carries all official notices and gives details of all public events, such as concerts, lectures, excursions, etc. Copies may be obtained upon request at the desk of Willard Straight Hall, at the Summer Session office, and at other University offices.

COURSES OF INSTRUCTION are listed by fields of instruction, alphabetically arranged. *The right is reserved to cancel any course* not elected by five students in the case of graduate courses or eight students in the case of undergraduate courses. Because of other demands which may be placed upon the instructing staff, it may be necessary to substitute other instructors for the ones named in the course descriptions.

UNIT COURSES...Unit courses, less than six weeks in length, are indicated by asterisks and their dates are given in the descriptions.

CLASS SCHEDULES...In most courses of instruction, classes will meet five times a week, on each week day except Saturday. Such classes will meet on Saturday, July 6, the first Saturday of the Session, but on no other Saturdays. Class periods begin on the hour unless otherwise indicated, and are fifty minutes in length. Laboratory periods are of various lengths, as indicated in the description of courses which include laboratory work.

ROOM SCHEDULES...The meeting places of courses will be given in a special announcement which will be furnished at the time of registration.

SCHEDULE OF EXAMINATIONS...With a few exceptions, examinations will be held on Thursday, August 8, and Friday, August 9, at hours indicated by the schedule below; in the exceptional cases, the examination will be held on Wednesday, August 7, at 2. The usual class rooms will be used unless a change is announced by the instructor.

In courses which meet for more than one hour daily, the examination period is determined by the first hour at which they meet. For example, Spanish S 1 meets daily at 8 and 12; the examination will be held on Thursday at 8. In courses which include both lecture and laboratory periods, the examination period is determined by the lecture hour. In courses in which no examination is to be given, an announcement to that effect will be made by the instructor; in such cases the last meeting of each course will be held in the examination period for that course.

Examinations will be held as follows:

<i>8 o'clock classes, Thursday at 8.</i>	<i>11 o'clock classes, Friday at 10:30.</i>
<i>9 o'clock classes, Friday at 8.</i>	<i>12 o'clock classes, Thursday at 2.</i>
<i>10 o'clock classes, Thursday at 10:30.</i>	<i>Afternoon classes, Friday at 2.</i>

AGRICULTURE

AGRICULTURAL ECONOMICS

A 2. *AGRICULTURAL GEOGRAPHY*... Undergraduate and graduate; credit two hours. Lectures, M T W Th 11. Discussion, M 2-4. Associate Professor DEGRAFF.

A discussion of world agriculture, its development and present status, as related to world patterns of food production, consumption, and trade. The Monday afternoon periods will be devoted to a consideration of the agriculture of the United States. Fee, \$2.

A 202. *FARM MANAGEMENT*... Graduate (undergraduate by permission); credit two hours. Lectures, M T W Th 9. Laboratory, T 2-4. Associate Professor DEGRAFF.

The organization and use of farm management subject matter for young farmers. Fee, \$2.

AGRICULTURAL ENGINEERING

A 41. *GENERAL SHOP WORK FOR RURAL HIGH SCHOOL TEACHERS*... Undergraduate and graduate; credit three hours. M W F 10-12:30 and three recitation periods to be arranged. Professor ROEHL.

Practical jobs to develop skill in woodworking, saw filing, tool grinding, handle fitting, harness repairing, rope work, cold metal working, farm blacksmithing, painting and glazing, furniture repairing, and refinishing, as suited to the needs of rural communities.

A course for teachers of agricultural and general shop work in rural high schools. Designed to develop skill in performance and teaching. Study will be made of shop objectives, shop planning, curriculum construction and organization, procedures in shop instruction and shop management. Laboratory fee, \$3.

A 43. *FIELD MACHINERY AND REPAIR*... Undergraduate and graduate; credit three hours. Lectures, W F 12. Laboratory, M F 1-6. Professor JENNINGS.

A course dealing with the repair, adjustment, and use of field machinery. Laboratory fee, \$3.

A 101. *ELECTRICITY AND ELECTRICAL EQUIPMENT FOR THE FARM AND THE HOME*... Undergraduate and graduate; credit three hours. Lectures, M W 8-10. Laboratory, T Th 1:40-4:40. (Will not be given unless as many as 15 students register.) Associate Professor WRIGHT.

A study of the nature of electricity, electrical wiring and electrical appliances, including motors, with special emphasis upon the use of these on the farm and in the home. Laboratory fee, \$2.50.

A 251. *SPECIAL PROBLEMS IN AGRICULTURAL ENGINEERING*... Undergraduate and graduate; credit one or more hours. Prerequisite, adequate ability and training for the work proposed, and permission to register. Professors and assistant professors of the department.

Special work in any branch of agricultural engineering on problems under investigation by the department or of special interest to the student; provided, in the latter case, that adequate facilities can be obtained. Laboratory fee as arranged.

EXTENSION TEACHING

From July 1 to 20, inclusive, six courses for credit are offered primarily for the professional improvement of persons engaged in extension work in agriculture, home economics, and boys' and girls' club work. Emphasis is on objectives, methods, public relations, sociology, and psychology, as distinguished from subject matter such as crops and livestock. Only two courses may be taken for credit. Afternoons will be devoted to optional activities such as field trips, visits to laboratories, and various interesting projects. A few outstanding individual lecturers will be heard. Applicants

will register on the usual Summer Session blanks. The fee is \$36. For full particulars, ask for "Extension Service Summer School Announcement." Address Professor L. D. Kelsey, Roberts Hall, Ithaca, New York.

A 203. *OBJECTIVES AND PROGRAMS*...Credit 1½ hours. Daily except Saturday 9:30-10:45. Professor McDONALD.

Deals with objectives, policies, and programs; including methods of developing programs, tests of effectiveness, adequacy, and balance in the light of changing situations, and the role of Land-Grant Colleges and the U. S. Department of Agriculture.

A 201. *PUBLIC RELATIONS AND INFORMATION SERVICE*...Credit 1½ hours. Daily except Saturday 8-9:15. Professor JETER.

Presentation of factors which develop and maintain public relations conducive to sound educational work, including agencies, media, institutions, policies and means of procedure; practical presentation, preparation, and use of bulletins, motion pictures, radio script, press articles, circular letter, planning and operating a co-ordinated information service.

A 202. *PUBLIC PROBLEMS IN AGRICULTURE*...Credit 1½ hours. Daily except Saturday 11-12:15. Professor NORTON.

Describes and presents analysis of some of the more important problems of agriculture that involve organized or governmental action; may be state, regional, national, or international with political, social, or economic implications.

A 206. *SOCIOLOGY FOR EXTENSION WORKERS*...Credit 1½ hours. Daily except Saturday 8-9:15. Associate Professor POLSON.

Application of sociology to practical needs of community organization and development; with methods of recognizing and understanding social changes; finding and using leaders; some sample studies; and coordination of extension programs with those of other agencies for community improvement.

A 204. *PUBLIC SPEAKING*...Credit 1½ hours. Daily except Saturday 11-12:15. Professor PEABODY.

An advanced course of study and practice in oral expression including the use of visual aids and demonstration material in their relation to effective speaking, designed to meet the needs of persons engaged in extension service. Opportunity will be given, through personal conferences, to study individual speech problems.

A 205. *PSYCHOLOGY FOR EXTENSION WORKERS*...Credit 1½ hours. Daily except Saturday 9:30-10:45. Professor KRUSE.

A point of view in education and in psychology for extension workers. The nature of man, with emphasis on the tendencies basic to effective influencing of human behavior. How people become changed as to their behavior.

FLORICULTURE AND ORNAMENTAL HORTICULTURE

Courses A 118 and A 199 are offered to practicing nurserymen, park and estate superintendents, landscape engineers and architects, and to advanced students in horticulture and landscape gardening.

Application for admission to these courses should be made as early as possible as registration is limited.

A 118. *LANDSCAPE CONSTRUCTION*...Undergraduate and graduate; credit two or four hours. Prerequisite, permission to register. Lectures, W 7:30-9:30 p.m. Laboratories, T W Th 8-12; T Th 1-6. Associate Professor PORTER.

A course covering the construction problems of the service departments of nursery landscape firms, landscape contractors, greenskeepers, and park superintendents. A study of the materials used in landscape construction, the design and drafting of details, costs, and estimates; with actual practice in and supervision of a variety of

problems such as grading, earthwork, walls, terraces, steps, pools, and the like. Laboratory fee, \$8.

A 199. *SPECIAL PROBLEMS*...Undergraduate and graduate; credit and hours by arrangement. Associate Professor PORTER.

Special problems related to landscape planning and planting design may be elected by qualified students with the permission of the instructor.

BIOLOGICAL SCIENCE

BACTERIOLOGY

A 1. *GENERAL BACTERIOLOGY*...Undergraduate and graduate; credit two or four hours. Lectures, daily except Saturday 1:40. Laboratory, daily except Saturday 2:30-4:30. Professor STARK and assistant.

An introductory course giving a general survey of the field of bacteriology, together with the fundamentals essential to further work in the subject. The morphology, physiology, and classification of bacteria; the culture of microorganisms, simple and differential staining, and general bacteriological technique; the bacteriology of soil, air, water, sewage, milk, and foods; the principles of immunity and the microbiology of disease. Laboratory fee, \$10, for those seeking four credit hours.

A 220. *SPECIAL PROBLEMS*...Credit and hours by arrangement. Professors SHERMAN and STARK.

Special problems in bacteriology may be elected by qualified students with the permission of the instructors.

BOTANY

S 1a. *GENERAL BOTANY—ANATOMY AND PHYSIOLOGY*...Undergraduate; credit three hours. Equivalent to Botany 1, first term. Lectures, daily except Saturday 2. Laboratory and conferences, daily except Saturday 3-4:30. Associate Professor CLARK.

The structures and life processes of the higher plants are examined in detail, with considerable attention to information necessary for more advanced or practical work with plants. Students taking this course may attend the field trips offered in connection with Botany 1b. Laboratory fee, \$3.50.

S 1b. *GENERAL BOTANY—MORPHOLOGY AND TAXONOMY*....Undergraduate; credit three hours. Equivalent to Botany 1, second term. May be taken in conjunction with Botany 1a, or independently. Lectures, daily except Saturday 10. Laboratory, daily except Saturday 11-12:30. Three half-day field trips on Saturdays to be arranged. Professor PETRY and assistant.

Representatives of the principal groups of plants are studied with a view to acquainting the student with the plant kingdom as a whole. The principal families of ferns and flowering plants are examined and practice in identification is given.

The field work is intended to afford to teachers and others first-hand knowledge of the commoner plants of all the great groups. Facilities for collecting plant materials for teaching or other purposes will be provided. Laboratory fee, \$3.50.

A 115. *AQUATIC PLANTS*...Undergraduate and graduate; credit three hours. Lectures, daily except Saturday 8. Laboratory and field work, M W 2-5:30. Two all-day trips. Professor MUENSCHER.

A study of the taxonomy and ecology of fresh-water plants, beginning with the algae and concluding with the aquatic angiosperms. Laboratory fee, \$3.

A 117. *TAXONOMY OF VASCULAR PLANTS*...Undergraduate and graduate; credit four hours. Prerequisite, course 1 or its equivalent. Lectures, daily except Saturday 10. Laboratory, M T W Th 11-12:30. Field trips, T Th 2-6. Associate Professor CLAUSEN.

A general course in taxonomy, including a study of the major families of seed plants and ferns, a consideration of the principles of classification, and field work on the flora of the Ithaca region. Laboratory fee, \$4; deposit, \$5.

GENETICS

A 101. *GENERAL GENETICS*... Undergraduate and graduate; credit four hours. Prerequisite, a course in botany, zoology, or biology. Lectures, daily except Saturday 10. Laboratory, daily except Saturday 11-12:30. One conference period, to be arranged. Associate Professor CUSHING.

A general study of the fundamental principles of genetics. Discussion of simple cases of inheritance, gene interaction, gene linkage, inheritance of quantitative characters, inheritance of sex, effects of inbreeding and crossing, the origin of heritable variation, gene action, and the relation of genetical principles to eugenics. Laboratory studies of hybrid material in plants and animals and breeding experiments with *Drosophila*. Laboratory fee, \$3.

ORNITHOLOGY

A 9. *ORNITHOLOGY*... Undergraduate; credit three hours. Lectures, M W F 9. Laboratory, M W 1:40-4:30, or M W F 10-12. Field trips, T Th 5:30-8 a.m. Professor A. A. ALLEN and Dr. E. G. ALLEN.

This course provides an introduction to the study of birds and familiarity with the local species. The lectures cover classification, migration, coloration, song, nest-building, eggs, care of young, methods of attracting birds, and their economic importance. The laboratory work with bird skins, nests, and eggs gives an intimate knowledge of the birds of eastern North America, their life histories and distribution, and familiarity with the use of manuals. The aim of the field work is the identification of birds by their songs and habits as well as by their plumage. Laboratory fee, \$3.

A 126. *ADVANCED ORNITHOLOGY*... Undergraduate and graduate; credit three hours. Prerequisite, Ornithology A 9 or its equivalent. With special permission may be taken with A 9. Lectures, T Th 9. Laboratory, T Th 1:40-4:30, and one other period by appointment. Professor A. A. ALLEN. Students desiring this course should write Professor ALLEN for reservations.

The structure and classification of the birds of the world; geographical distribution; the literature and institutions of ornithology; the preparation of bird skins and bird photography. Laboratory fee, \$3.

ZOOLOGY

S 1a. *INTRODUCTORY ZOOLOGY*... Undergraduate; credit three hours. Prerequisite, Zoology 1b (An Introduction to the Vertebrates) or permission. Recitations, daily except Saturday 11. Laboratory, M W F 1:40-4. Mr. BOND and assistant.

Course deals with the structure and body functions of representative animals lacking backbones; their classification and habits; where and how they live; and their relations to one another and to the welfare of man. Laboratory fee, \$3.

S 8. *SYSTEMATIC VERTEBRATE ZOOLOGY AND ECOLOGY*... Undergraduate and graduate; credit four hours. Lectures, M T W Th 1:40-2:30. Laboratory and field work, M T W Th 2:30-5:30. One or two all-day trips are required. Occasionally a field trip, 5:30-8 a. m. or 5-8 p.m., may be substituted for the regular periods. Professor WRIGHT.

Lectures on fishes, amphibians, reptiles, and mammals; their habits, life-histories, coloration, respiration, locomotion, reproduction, and adaptations; together with their classification, nomenclature, characters, and relationships. Laboratory study of the

parts employed in the classification of these groups, with training in the identification of two hundred and forty North American species. Field work is partly to give practice in field observations and in ready identification of local vertebrates in their natural environment, and partly to introduce some ecological methods. Textbook: Jordan's *Manual of Vertebrates of the Northeastern United States*, new edition. Laboratory fee, \$4.50.

S 112. *LITERATURE OF BIOLOGY, ZOOLOGY, ECOLOGY, CONSERVATION, AND ALLIED SCIENCES*... Undergraduate and graduate; credit one hour. T W Th 7:30 p.m. Professor WRIGHT.

The literature of zoology, ecology, limnology, oceanography, and kindred fields; fish and fisheries; amphibia, reptiles, and mammals; small and big game (commercial and sport); aquaria; herbaria; insect collections; zoological gardens, preserves; biological stations; game farms; animals in relation to recreation, settlement, forestry, agriculture, and other industries; biological resources, their exploration, conservation, utilization, and management.

EDUCATION

ADMINISTRATION AND SUPERVISION

A 260. *THE ELEMENTARY AND SECONDARY SCHOOL PRINCIPALSHIP*... Undergraduate and graduate; credit two hours. Daily except Saturday 8. Superintendent ANDERSON.

A consideration of the problems of elementary and high school administration. Intended primarily for persons interested in elementary or secondary principal's certificates.

A 261a. *FUNDAMENTALS OF EDUCATIONAL ORGANIZATION AND ADMINISTRATION*... Graduate; credit two hours. Daily except Saturday 10. Superintendent ANDERSON.

A consideration of the more important problems in organizing and administering the community's educational program.

A 262c. *THE SCHOOL PLANT*... Graduate; credit two hours. Daily except Saturday 11. Professor BUTTERWORTH and specialists.

A workshop especially planned for administrative officers who expect to face building problems within the next few years. As a means of making the workshop activities realistic, members of the class should, if possible, bring with them certain basic data regarding their situations. Write the instructor for a statement of the types of data desired. An architect and other specialists will be available for assisting with technical details.

The workshop will deal with the principles and techniques of planning a school building to house the community's educational program. Typical problems: evaluating a school plant; predicting pupil population; school-community relationships affecting the school building; determining needs as regards class and special rooms; preparing preliminary plans for the architect; new types of building materials and equipment; measuring probable utilization.

Since registration will be limited, early application for admission to the Workshop is desirable.

A 263. *PROCEDURES AND TECHNIQUES IN SUPERVISION*... Graduate; credit two hours. Daily except Saturday 9. Professor MOORE.

Designed for superintendents, supervisors, and principals. Inexperienced students admitted only by permission. A consideration of the nature and purpose of supervision; the improvement of the learning-teaching process; skill in observations; analysis of methods; relationships between general and specific objectives; selection,

analysis, and organization of subject matter; measuring and testing results; assisting teachers in professional growth.

A 264. *SEMINAR IN SCHOOL ADMINISTRATION*...Graduate; credit two hours. Daily except Saturday 9. Professor BUTTERWORTH.

A study of the intermediate district in New York State: lacks in the educational program in rural areas; various methods of meeting these needs; the socio-economic concept in laying out an intermediate district; organizing and financing the proposed district; the Area School; etc. Data from the Intermediate District Study will be available for analysis.

A 266. *THE SUPERVISION OF THE ELEMENTARY SCHOOL*...Graduate; credit two hours. Daily except Saturday 11. Professor MOORE.

Designed for supervisors, elementary school principals, and superintendents. A consideration of important research studies which have a direct bearing upon the teaching and supervisory problems of the elementary school.

AGRICULTURAL EDUCATION

A 132b. *THE TEACHING OF AGRICULTURE IN THE SECONDARY SCHOOL*...Undergraduate; credit two hours. M W Th F 8. Laboratory, T 1:40-4. Associate Professor OLNEY.

The first part of the regular course in the Teaching of Vocational Agriculture in the Secondary School.

A 133. *THE TEACHING OF AGRICULTURE*...Undergraduate; credit to be arranged. Daily except Saturday 9. Staff in Agricultural Education.

A 134a. *SPECIAL EDUCATION FOR LEADERS OF OUT-OF-SCHOOL YOUTH AND ADULTS*...Undergraduate and graduate; credit two or three hours, the third hour by appointment. Daily except Saturday 11. Associate Professor HOSKINS.

Designed for leaders of older youth and adults in rural areas. The consideration of objectives, developments, and trends in educational programs for out-of-school groups. Field studies required for third hour of credit.

A 232d. *ADVANCED PROBLEMS OF TEACHING IN VOCATIONAL AGRICULTURE*...Graduate (undergraduates by special permission); credit two hours. M T W F 10. Laboratory, Th 1:40-4. Associate Professor OLNEY.

A workshop in selected units of instruction with special reference to availability and selection of teaching materials.

A 233. *ADVANCED PROBLEMS IN THE TEACHING OF AGRICULTURE*...Graduate (undergraduate by permission); credit two or three hours, the third hour by special arrangement. Five class hours a week throughout the six weeks' period. Associate Professor SMITH.

Off-campus courses in centers to be announced, special units based on individual and community needs and resources, schedules to be determined. For 1946, the unit to be arranged.

A 250. *SEMINAR IN AGRICULTURAL EDUCATION: EVALUATION*....Graduate; credit two hours. W 1-5, and one hour to be arranged. Associate Professor HOSKINS.

Evaluation of the program of vocational education in agriculture in actual situations.

THE CURRICULUM

S 30. *METHODS AND MATERIALS IN TEACHING HISTORY AND THE SOCIAL STUDIES*...Graduate; credit two hours. Daily except Saturday 8. Miss KLEE.

A practical consideration of teaching and evaluation procedures in relation to materials of instruction and the activities of pupils.

S 33. *METHODS AND MATERIALS IN TEACHING ENGLISH*...Graduate; credit two hours. Daily except Saturday 8. Miss GRIMES.

The purpose of this course is to help inexperienced and experienced teachers with methods and materials for teaching literature and composition. Emphasis will be placed on that phase of English which is of most interest to the class.

S 111. *EXTRA-CLASS EDUCATION OF PUPILS*...Graduate (undergraduates by permission); credit two hours. Daily except Saturday 10. Dr. ALLEN.

Consideration of supervision of such extra-curricular activities as the student council, the group problem, publications, and home rooms. There will be an attempt to develop a philosophy concerning student participation in government, and to clarify the relationship between students and administration.

S 130. *CURRICULUM DEVELOPMENT IN HISTORY AND THE SOCIAL STUDIES*...Graduate; credit two hours. Daily except Saturday 1. Miss KLEE.

The study and development of curriculum materials. Members of the class will have access to a well-equipped curriculum laboratory and the opportunity to work on individual projects.

S 133. *CURRICULUM DEVELOPMENT IN ENGLISH*...Graduate; credit two hours. Daily except Saturday 1. Miss GRIMES.

Modern trends in the English curriculum and recent findings of research. Opportunity for individual help will be given to teachers in building courses of study in relation to the total program of English. The course will depend upon the needs of the participants.

S 140. *NEWER TRENDS IN EDUCATION AS APPLIED TO THE ELEMENTARY SCHOOL*...Graduate; credit two hours. Daily except Saturday 8. Dr. JUNGE.

A consideration of recent trends in elementary school education.

S 148. *NEWER METHODS IN TEACHING ARITHMETIC*...Graduate; credit two hours. Daily except Saturday 10. Dr. JUNGE.

A practical discussion of objectives, procedures, and teaching materials. The work is planned for experienced teachers, principals, and supervisors.

A 226e. *METHODS AND MATERIALS OF HEALTH TEACHING*...Undergraduate and graduate; credit two hours. Daily except Saturday 8. Miss VAN SLYKE.

The course is designed to assist health teachers and coordinators in understanding the basic principles underlying the school health program; the articulation of health teaching with other aspects of the total school program. Emphasis will be placed on the study of methods and materials in planning curriculum at the junior and senior high school levels. The course will be modified as the specific needs of the members of the class become known. Correspondence to inform the instructor of these needs will be welcomed. The course will carry graduate and undergraduate credit.

A 276d. *MAJOR PROBLEMS AND TRENDS IN CURRICULUM BUILDING TODAY*...Undergraduate and graduate; credit two hours. Daily except Saturday 10. Assistant Professor KING.

A consideration of some of the recent trends in determining curriculum objectives, content, and organization in elementary and secondary schools today; and the interpretations of education, its nature and purposes forming the basis of those trends. Special attention will be given to significant problems of curriculum building in the light of existing theories and practices and emerging demands for readjustment. Some opportunity will be afforded for work and consultation on individual problems.

A 281c. *PROBLEMS AND TRENDS IN THE REDIRECTION OF SECONDARY EDUCATION*...Undergraduate and graduate; credit two hours. Daily except Saturday 12. Assistant Professor KING.

A consideration of selected recent trends in the conception of secondary education in the United States today as to its scope, aims, functions, organization, curricula,

its adjustment to the needs of American youth and the demands of his social, economic, cultural, and spiritual environment. Attention will be given to some of the major problems that must be met in effecting the needed changes.

DEMONSTRATION SCHOOL

A demonstration school exemplifying modern informal methods in elementary schools will be maintained on the campus for observational purposes. Special opportunities for observation will be scheduled for classes in supervision and methods.

S 122a. *OBSERVATION OF CHILD ACTIVITY EDUCATION*. No credit. Daily except Saturday 9-11:30 and group conferences each Thursday 2-3:30. Professor MOORE, Dr. JUNGE, Miss KNAPP, and others.

EDUCATIONAL PSYCHOLOGY

S 7. *MENTAL MEASUREMENTS*... Undergraduate and graduate; credit three hours. With consent of the instructor, this course may be taken without observations for two hours credit. Daily except Saturday 9. Observation hours to be arranged. Professor FREEMAN.

Concepts of intelligence; individual and group tests of intelligence; principles underlying their construction and interpretation; use of tests in schools, in the armed services, and in other fields. Lectures, readings, and observations of individual testing.

S 12. *PSYCHOLOGY OF EXCEPTIONAL CHILDREN*... Graduate; with the consent of the instructor, qualified undergraduates may be admitted; credit two hours. Daily except Saturday 11. Professor FREEMAN.

Designed to give a scientific understanding of children who deviate from the usual; the gifted, the feeble-minded, the delinquent, those having special abilities or disabilities, those having personality defects, and those having sensory and physical handicaps. Lectures, reading, and case studies. Students who have not had or are not now taking a course in mental measurements may be admitted only with approval of the instructor.

A 214. *PSYCHOLOGICAL PROBLEMS IN THE CLASSROOM*... Graduate; credit two hours. Daily except Saturday 9. Assistant Professor WOODRUFF.

Designed to provide members of the class with an opportunity to select their most persistent and troublesome classroom problems and analyze them to discover the psychological factors which give rise to them. Prospective registrants are urged to write the instructor for suggestions on useful materials to bring to the class from their schools.

A 215. *PSYCHOLOGY OF ADOLESCENCE*... Undergraduate and graduate; credit two hours. Daily except Saturday 10. Assistant Professor WOODRUFF.

A study of behavior during the adolescent stage of development.

A 251. *EDUCATIONAL MEASUREMENT*... Graduate; credit two hours. Daily except Saturday 8. Assistant Professor BAYNE.

The use and interpretation of tests by teachers and school officers as aids in the improvement of instruction.

GUIDANCE AND PERSONNEL ADMINISTRATION

S 115. *STUDENT PERSONNEL ADMINISTRATION IN COLLEGES AND UNIVERSITIES*... Graduate; credit two hours. Daily except Saturday 8. Dr. ALLEN.

The scope, organization and development of a student personnel program. Discussion of specific areas by visiting lecturers. Consultation on specific problems brought from particular schools. Designed to assist personnel officers and school and college administrators.

H 119. *PERSONNEL ADMINISTRATION*...Graduate; credit two hours. Daily except Saturday 10. Professor WINSOR.

A study of the problems of human management and industrial relations in business and industry. The principles and methods of recruitment, selection, placement, maintenance, organization, and government of employees are considered from the point of view of the personnel director and the guidance counselor.

H 217. *USE AND INTERPRETATION OF TESTS IN GUIDANCE*...Graduate; credit two hours. Daily except Saturday 8. Professor WINSOR.

This course deals with the development, use, interpretation, and significance of psychological measuring devices as a basis for analyzing the capacities, interests, and abilities of individuals seeking vocational guidance. A course in measurement is prerequisite.

A 282. *EDUCATIONAL AND VOCATIONAL GUIDANCE*...Graduate; credit two hours. Daily except Saturday 8. Assistant Professor NELSON and Associate Professor RHULMAN.

Primarily for graduate students who wish to become certified as counselors. Principles and practices of educational and vocational guidance. Historical and theoretical background of the guidance movement; educational, vocational, and community information needed; the study of the individual; group methods; counseling; placement and follow-up; and the organization, administration, and appraisal of guidance programs.

A 283. *COUNSELING METHODS*...Graduate; credit four hours. Prerequisite, 282 or its equivalent. Daily except Saturday 9-11. Associate Professor RHULMAN.

Primarily for graduate students who wish to become certified as counselors. Techniques for counseling with individuals concerning various types of educational, social, personal, and vocational adjustment problems. Case studies and field work.

A 285. *OCCUPATIONAL AND EDUCATIONAL INFORMATION*...Graduate; credit four hours. Daily except Saturday 11. Hours for field trips to be arranged. Assistant Professor NELSON.

Survey and appraisal of occupations and training opportunities; study of sources of educational and vocational information; job analysis methods, vocational trends. Field trips to places of employment.

HOME ECONOMICS EDUCATION

A 236a. *CREATIVE PROCEDURES*...Graduate; credit two hours. One hour additional credit for workshop experience. Daily except Saturday 10. Miss KROST.

A course in methods of teaching Home Economics for students who are in the first or second summer of graduate work, and who have a limited background in psychology, philosophy, and curriculum.

*A 236b. *CURRICULUM WORKSHOP AND REFRESHER COURSE FOR TEACHERS OF HOME ECONOMICS (HOME MANAGEMENT)*...July 1-19. Graduate; credit three hours. Miss BUCKEY and Miss ACHESON.

Management problems of families and of homemaking departments in schools will be discussed in afternoon sessions. Students will spend the morning workshop period in discussing methods of teaching management to high school students and adults. Each student will submit a plan for teaching management in her own school situation.

*E 236b. *CURRICULUM WORKSHOP AND REFRESHER COURSE FOR TEACHERS OF HOME ECONOMICS (FAMILY RELATIONSHIPS)*...July 1-19. Graduate; credit three hours. Professor THURSTON and Professor MCGINNIS.

Afternoon sessions will be spent in discussing pertinent problems of high school students and adults in family relationships. The morning workshop sessions will

discuss ways of developing curriculum materials in this area. Each student will prepare a plan for teaching family relationships in her own school situation.

A 237. *ADULT HOMEMAKING EDUCATION*...Graduate; credit two or three hours. Daily except Saturday 8. Miss KROST.

Planned for teachers, extension agents and other leaders in adult homemaking education. This course deals with philosophy, organization, administration, program planning, promotion, leadership, teaching methods, and evaluation of adult programs. Attention is given to the contributions which different agencies can make to adult education in the community program. Time must be scheduled for trips. Estimated cost of trips, \$5.

A 248. *PREPARATION OF TEACHERS OF HOME ECONOMICS FOR SECONDARY SCHOOLS*...Graduate; credit two hours. Daily except Saturday 10. Associate Professor HUTCHINS.

Planned for cooperating teachers participating in teacher education programs and for experienced teachers who desire to prepare for positions in the field of teacher education.

The course deals with the nature, purpose, organization, and administration of student teaching; the functions of the cooperating teachers; induction of student teachers into the total school program and into community activities; critical analysis and appraisal of directed observations, participation, and teaching; cooperating teacher and student teacher conferences; instructional materials for courses in directed teaching. Students are advised to bring with them materials for appraisal and revision, such as observation guides, criteria used in continuous appraisal of the student teacher's performance; student-teacher manuals. Fee, \$2.

A 249a. *SEMINAR IN HOME ECONOMICS EDUCATION: CURRICULUM*...Graduate; credit two hours. Daily except Saturday 8. Associate Professor HUTCHINS.

Designed for graduate students who have had experience as home economics educators in schools and colleges, extension service, business, etc. Arrangements will be made for students to work on individual problems.

*A 249b. *SEMINAR IN RESEARCH IN HOME ECONOMICS EDUCATION*...July 1-19. Graduate; credit two hours. Daily except Saturday 11-1. Professor THURSTON.

For graduate students with experience and background in home economics education. Consideration will be given to problems requiring investigation, to methods appropriate for studies and research in this field, to an evaluation of recent studies, and to planning a research project.

*A 249c. *SEMINAR IN HOME ECONOMICS EDUCATION: EVALUATION*...July 21-August 9. Graduate; credit two hours. Daily except Saturday 11-1. Miss SEGNER.

For advanced students who have had background in curriculum making.

A 269. *ADMINISTRATIVE PROBLEMS IN HOME ECONOMICS EDUCATION*...Graduate; credit two hours. Daily except Saturday 9.

For persons now engaged in supervision and in the education of teachers in service and for those who wish to prepare for such work.

INDUSTRIAL AND TECHNICAL EDUCATION

A 143a. *CURRICULUM CONSTRUCTION IN INDUSTRIAL AND TECHNICAL EDUCATION*...Undergraduate and graduate; credit two hours. Daily except Saturday 9.

Deals with the fundamentals of curriculum construction as applied to the development of curriculums and courses of study for industrial and technical schools, including technical institutes.

S 143c. *SPECIAL METHODS IN INDUSTRIAL AND TECHNICAL EDUCATION*...Undergraduate and graduate; credit two hours. Daily except Saturday 11.

Special methods applicable to teaching technical and related subjects in drawing room, shop, laboratory, and classrooms.

A 143d. *ACTIVITY ANALYSIS FOR INDUSTRIAL SUBJECTS*...Undergraduate and graduate; credit two hours. Daily except Saturday 2. Assistant Professor RANNEY.

Deals with analysis of industrial processes to determine teaching elements for establishing content for vocational-industrial and technical courses.

A 242. *SEMINAR IN INDUSTRIAL ARTS EDUCATION*...Graduate; credit two hours. Daily except Saturday 8.

A study of current problems in industrial arts education.

A 242b. *CURRICULUM CONSTRUCTION IN INDUSTRIAL ARTS EDUCATION*...Graduate; credit two hours. Daily except Saturday 9.

Deals with the application of basic principles of curriculum construction to industrial arts education; study of industrial arts curricula and their adaptation to present-day needs.

A 243. *ADMINISTRATION OF INDUSTRIAL AND TECHNICAL EDUCATION*...Graduate; credit two hours. Daily except Saturday 11. Professor EMERSON.

A course in school administration dealing with the responsibilities of the principal and administrative assistants in industrial and technical high schools, and technical institutes, and of the city director of vocational education.

S 243a. *SUPERVISION OF INDUSTRIAL AND TECHNICAL EDUCATION*...Graduate; credit two hours. Daily except Saturday 10. Assistant Professor RANNEY.

Principles and practices in the improvement of instruction in all phases of industrial and technical high school courses.

NATURE STUDY AND SCIENCE EDUCATION

A 108. *FIELD NATURAL HISTORY*...Undergraduate and graduate; credit two hours. Lectures, M W 1:40-2:30. Field trips, M W 2:30-5; F 1:40-4. Miss GORDON and assistant.

Field trips and lectures devoted to a study of the natural history of various ecological units, with special emphasis on their contributions to the teaching of science.

A 202. *NATURE LITERATURE*...Undergraduate and graduate; credit two hours. Daily except Saturday 9. Miss GORDON.

A survey of nature and science prose, poetry, and fiction, with some attention to their significance at elementary and secondary school levels.

A 205. *THE TEACHING OF CONSERVATION*...Undergraduate and graduate; credit two hours. Daily except Saturday 10. Professor PALMER.

Consideration of the principles, materials, and methods of conservation education useful to teachers and others engaged in teaching of the wise use of the resources of the nation. Sections will deal with Safety Education, Wild-Life Conservation, Soil Conservation, and Conservation of Human Resources with special trips supplementing classroom activities.

A 226c. *METHODS AND MATERIALS FOR THE TEACHING OF BIOLOGY*...Undergraduate and graduate; credit two hours. Daily except Saturday 8. Professor PALMER.

A consideration of problems of selection and organization of subject matter, of choice and use of materials, and of methods of teaching biology.

RESEARCH

B 199. *INFORMAL STUDY IN EDUCATION*...Undergraduate credit as arranged. Members of the staff of the School of Education.

This privilege may be granted to a qualified student of junior rank or above, with the approval of his adviser and the consent of the appropriate member of the Education faculty.

B 300. *RESEARCH*...Graduate; credit as arranged. Members of the staff of the School of Education.

Students working on theses or other research projects may register for this course. The staff members concerned must be consulted before registration.

ENGLISH, SPEECH AND DRAMATICS

ENGLISH

S 27a. *THE SHORT STORY*...Undergraduate and graduate; credit two hours. Daily except Saturday 9. Associate Professor DAVIS.

A study of representative short stories.

S 36b. *POETRY OF THE VICTORIAN AGE*...Undergraduate and graduate; credit two hours. Daily except Saturday 10. Associate Professor FRENCH.

The poetry of Tennyson, Rossetti, Swinburne, and others.

S 39a. *AMERICAN LITERATURE TO THE CIVIL WAR*...Undergraduate and graduate; credit two hours. Daily except Saturday 8. Associate Professor HALLINE.

The writings of Poe, Emerson, Thoreau, Hawthorne, Franklin, and others.

S 48. *MODERN DRAMA*...Undergraduate and graduate; credit two hours. Daily except Saturday 11. Associate Professor HALLINE.

A study of modern English, Continental, and American plays.

S 49a. *DRAMATIC LITERATURE: TRAGEDY*...Undergraduate and graduate; credit two hours. Daily except Saturday 9. Dr. DETMOLD.

A study of tragedy based upon thirty examples from the drama of Greece, France, and Elizabethan England. Lectures on theories of tragedy will accompany the reading of the plays; discussions and papers will provide opportunities to search for and test standards of appreciation and judgment.

S 54. *RECENT AMERICAN POETRY*...Undergraduate and graduate; credit two hours. Daily except Saturday 12. Associate Professor FRENCH.

A study of American poets of this century: Robinson, Frost, Sandburg, Eliot, MacLeish, and others.

S 58. *AMERICAN FOLK-LITERATURE*...Undergraduate and graduate; credit two hours. Daily except Saturday 10. Professor THOMPSON.

Traditional tales, ballads, proverbs, and folk-beliefs of whites, Negroes, and Indians. Emphasis upon ballads, which will be sung, and upon methods of collecting and classifying folklore. No technical knowledge of music is required.

S 84. *CREATIVE WRITING*...Undergraduate and graduate; credit two hours. Daily except Saturday 11. Associate Professor DAVIS.

A critical approach to the problems of writing through practice, experiment, and classroom discussion.

S 140. *SEMINAR IN AMERICAN LITERATURE*...Primarily for graduates who have credit for a survey course in American literature or its equivalent; they must consult the instructor before registering. A few upperclassmen may be admitted with the instructor's consent. Credit two hours. Hours to be arranged. Professor THOMPSON.

Topics for study will be selected at the first meeting of the class.

S 801. *SPECIAL TOPICS FOR INVESTIGATION*...Graduate only; credit normally two hours, but varies with the nature and amount of work attempted.

For those who wish to supplement courses described above or to pursue their studies without formal courses. The course is administered by various members of the staff; students who wish to be put into touch with a suitable director for the work they have in mind may consult or write to Professor W. H. FRENCH.

JOURNALISM

S 15. *ELEMENTS OF JOURNALISM*...Undergraduate and graduate; credit two hours. Daily except Saturday 11. Professor BRISTOW ADAMS.

The principles of journalistic writing, with special emphasis on the writing of news, but with some instruction in the writing of editorials, criticisms, reports, and news features.

S 122. *SPECIAL ARTICLES*...Undergraduate and graduate; credit two hours. Daily except Saturday 9. Professor BRISTOW ADAMS.

The writing of non-fiction articles for newspapers and magazines.

SPEECH AND DRAMA

Students may confer either with the departmental representatives in Barton Hall, or with individual instructors, who will be in their offices both on registration day and on the first day of instruction. For information about advanced work in Speech Training and Phonetics, consult Professor Thomas, Goldwin Smith 23; in Rhetoric and Public Speaking, Professor Wagner, Goldwin Smith 233; in Drama and Theatre, Professor Drummond, Goldwin Smith 127.

S 1. *PUBLIC SPEAKING*...Undergraduate; credit two hours. Daily except Saturday 11. Associate Professor WAGNER.

Practice in speech-making, on topics of current interest. Methods of preparation and delivery studied in relation to practice; class discussions; conferences. Regular students passing the course are admitted to Public Speaking 2 and 12.

Enrollment will be limited; students must apply on registration day to the Departmental representatives in Barton Hall.

S 7. *DISCUSSION*...Undergraduate and graduate; credit two hours. Daily except Saturday 9. Associate Professor WAGNER.

Principles and practice of group thinking; an introduction to systematic investigation and reflective thinking, with application to current questions; practice in various types of group discussion.

S 10. *ORAL INTERPRETATION OF LITERATURE*...Undergraduate; credit two hours. Daily except Saturday 12. Professor WICHELNS.

Study, for understanding and appreciation, of poetry selected from the best English and American writers; practice in reading aloud; conferences.

S 14. *PUBLIC DISCUSSION IN AMERICAN LIFE*...Undergraduate and graduate; credit two hours. Daily except Saturday 10. Professor WICHELNS.

A critical study of the discussion of public affairs, oral and written, as a social force in various ages of democracy; the principal types, examples, and conditioning factors. Lectures, readings, reports.

S 20. *RHETORICAL THEORY*...Graduate; credit two hours. Daily except Saturday 12. Associate Professor WAGNER.

A survey: function of speech in society; purposes and forms of public address; speech preparation; structure; style; delivery; theories of persuasion. Lectures, readings, and reports.

S 21. *TOPICS IN THE HISTORY OF PUBLIC ADDRESS*...Graduate; credit two hours. T 2:30-5 and hours to be arranged. Professor WICHELNS.

Selected topics in the history of public address; for graduates prepared for advanced work.

S 32. *TEACHERS' COURSE IN PHONETICS AND SPEECH TRAINING*..... Undergraduate and graduate; credit two hours. Daily except Saturday 9. Associate Professor THOMAS.

A study of English phonetics, pronunciation, and the improvement of speech; primarily for secondary and elementary school teachers.

S 36. *PRINCIPLES OF SPEECH CORRECTION*... Undergraduate and graduate; credit two hours. Daily except Saturday 10. Associate Professor THOMAS.

Principles governing change of speech habits; causes, classification, and diagnosis of defects; function and organization of the clinic.

S 41. *DRAMATIC PRODUCTION*... Undergraduate and graduate; credit two hours. Daily except Saturday 10. Associate Professor STANTON.

For upperclassmen and graduates. Theory of stage direction; fundamentals of theatrical mounting; survey of practical phases of production. Prerequisite for further work in Dramatic Production.

S 42. *DRAMATIC INTERPRETATION AND ACTING*... Undergraduate and graduate; credit two hours. M W F 3-5. Assistant Professor ALBRIGHT.

A practice course in oral interpretation, pantomime, acting, and group rehearsal.

S 49. *PLAYWRITING WORKSHOP*... Undergraduate and graduate; credit two hours. Daily except Saturday 10. Mr. FREUND.

A writing laboratory to teach the fundamental techniques of playwriting and screen writing. Each student will choose whether to write a work for the stage or a documentary or educational film treatment and shooting script. Final registration will be subject to the approval of the instructor.

S 55. *THE MOTION PICTURE: A SURVEY EMPHASIZING SOCIAL IMPLICATIONS AND EDUCATIONAL USE*... Undergraduate and graduate; credit two hours. Daily except Saturday 12. Mr. FREUND.

The development of motion pictures as a modern art; characteristic technical devices and problems of acting, writing, and directing; economic and social aspects of the art and industry. The documentary film, American and English. The educational film, with special reference to its wartime use and its place in postwar society.

S 66. *BACKGROUNDS OF MODERN STAGE PRESENTATION*... Undergraduate and graduate; credit two hours. Daily except Saturday 2:15. Professor DRUMMOND.

Aesthetic principles of theatrical presentation, with special attention to the development of modern theatre art and criticism. Lectures, readings, reports; textbook, Gorelik's *New Theatres For Old*.

S 90. *TECHNICAL THEATRE PRACTICE*... Undergraduate and graduate; credit two hours. Hours to be arranged. Dr. TRAPIDO.

Technical practice coordinated with the regular productions of the Summer Theatre; readings in the techniques involved.

S 95. *MAKE-UP*... Undergraduate and graduate; credit two hours. Assistant Professor CURVIN.

Laboratory in make-up coordinated with the productions of the Summer Theatre; readings and lectures on the history of makeup and of masks, and on period ornament.

S 300. *THESES AND SPECIAL PROBLEMS IN DRAMA AND THEATRE*... Graduate; credit two or more hours. Professor DRUMMOND.

Required of regularly registered graduates working on theses. Open to other graduates prepared for the independent study of special topics in drama and the theatre.

SPEECH CLINIC...No credit. For students working under the direction of the department. Associate Professor THOMAS. By appointment.

The courses required for the degree of Master of Arts in Public Speaking and Speech Training are offered through a rotation of courses in a minimum of five summers. Candidates will take, or offer suitable equivalents for S 1, S 2, and S 10; six hours in each of the following four divisions: Rhetoric and Public Speaking, S 14, S 20, S 21, S 22, S 28; Speech Improvement and Phonetics, S 32, S 33, S 34, S 36, S 36a, S 36b; Dramatic Production, S 41, S 42, S 44, S 45, S 48, S 66, S 68, S 90; electives in English, History, Government, Sociology, Psychology. In addition, each candidate will offer four hours in one of the three departmental divisions, and during the final summer will register in S 100 or S 200 for the writing of a thesis or extended essay.

The courses required for the degree of Master of Arts in Dramatic Production are offered through a rotation of courses in a minimum of five summers. Candidates will take, or offer suitable equivalents for S 1, S 10, S 41; in Drama and Theatre six hours from S 45, S 45a, S 48, S 66, S 68; eight hours from S 42, S 44, S 45a, S 90, S 95; in Dramatic Literature, English S 23, English S 48; in Speech Improvement and Phonetics, six hours from S 32, S 33, S 36, S 36a, S 36b; in Rhetoric and Public Speaking, four hours; and during the final summer will register in S 300 for the writing of a thesis or extended essay based on one of the advanced courses.

FINE ARTS

ART HISTORY AND APPRECIATION

S 1a. *INTRODUCTION TO ART: WESTERN ART TO THE RENAISSANCE*...Undergraduate; credit two hours. Daily except Saturday 9. Professor WAAGÉ.

The development of pictorial and sculptural forms and styles to meet the needs of the major human cultures ancestral to our own, up to the Renaissance in Italy.

S 7. *TWENTIETH CENTURY ART*...Undergraduate and graduate; credit two hours. Prerequisite, S 1a or b or previous work in the history or practice of art. Daily except Saturday 12. Professor WAAGÉ.

The consequences of the divorce of painting and sculpture from social function; painters' painting and expressionism; individualistic and clique vagaries; attempts towards reintegration.

DRAWING AND PAINTING

All materials needed for these courses may be obtained in Ithaca. A student may register for credit in Course S 2 during successive summers. Enrollment in these courses is limited.

S 1. *DRAWING AND PAINTING*...Undergraduate; credit two hours. Daily except Saturday 10-12. Assistant Professor DALY.

Studio work with group discussions and individual criticism. A variety of media such as lithographic crayon, water color, gouache, and oils will be used. Previous experience in art not necessary.

S 2. *ADVANCED DRAWING AND PAINTING*...Undergraduate and graduate; credit two hours. Daily except Saturday 10-12. Assistant Professor DALY.

Open to students with a considerable amount of previous training in art. The work assigned will vary according to the needs of the individual student.

S 3. *OUTDOOR PAINTING*...Undergraduate and graduate; credit two hours. Daily except Saturday 2-4. Assistant Professor DALY.

This course is open to all students. The Cornell University campus and its immediate environs offer abundant and varied subject matter for outdoor work.

MUSIC

S 1a. *THE ELEMENTS OF MUSIC*... Undergraduate; credit two hours. Daily except Saturday 9. Assistant Professor HULL.

This course involves a thorough oral and written study of time and rhythm, scales and triads, including the application of these materials to the keyboard; the analysis, sight-singing, and dictation of melodies, as well as some original composition of simpler melodic ideas; leading to the study of chord choice and the fundamentals of harmony.

S 11a. *THE ART OF MUSIC*... Undergraduate; credit two hours. Daily except Saturday 10. Associate Professor KUYPERS.

An approach to the rational understanding and enjoyment of the art of music, offered especially for students who have had no technical training in music. This part of the course is devoted to a study of musical structure and the means of musical expression. A large number of phonograph recordings of both old and new music is available to the students in this course.

S 21b. *THE HISTORY OF MUSIC*... Undergraduate; credit two hours. Daily except Saturday 11. Professor WEAVER.

A survey of the evolution of the art of music, with special reference to the development of musical styles from period to period. This part of the course covers the period from the time of Bach and Handel (approximately 1750) until the present day.

APPLIED MUSIC... Persons interested in individual instruction in piano, violin, and voice should correspond directly with Professor John M. Kuypers, 320 Wait Avenue.

CHORUS... All men and women interested in singing in a chorus may report to Professor Weaver at 5 p.m. on Wednesday, July 3, in the choir loft of the Sage Chapel, for discussion of plans and decision on a suitable schedule of rehearsals.

ORCHESTRA... All men and women interested in playing in an orchestra should consult Associate Professor Kuypers on registration day in Barton Hall or immediately thereafter in his office in the Music Building, 320 Wait Avenue.

HISTORY AND THE SOCIAL SCIENCES

ECONOMICS

S 1. *MODERN ECONOMIC SOCIETY*... Undergraduate; credit four hours. Daily except Saturday 8-10.

A survey of the existing economic order, its more salient and basic characteristics, and its operation.

GEOGRAPHY

S 11. *GENERAL GEOGRAPHY*... Undergraduate and graduate; credit two hours. Daily except Saturday 10. Professor VON ENGELN.

In the lectures the fundamental concepts of geography, direction and position, are considered in connection with map projections and map reading; the regions of the world are discussed in terms of climatic types generally, and then, in particular, with reference to political divisions. The tropical belt of lands is given special attention. The concepts of geopolitics are outlined in their relation to current world problems. The lectures are supplemented by textbook and atlas study to insure appreciation of the broad principles of environmental geography and a knowledge of place locations.

HISTORY

S 7. *INTELLECTUAL AND SOCIAL HISTORY OF ENGLAND: TUDOR AND STUART PERIOD*... Undergraduate and graduate; credit two hours. Daily except Saturday 8. Professor MARCHAM.

A study of the English Renaissance as it affected ideas and practice regarding government, economics, literature, and the Fine Arts.

S 9. *THE BRITISH COMMONWEALTH AND EMPIRE IN THE 19TH AND 20TH CENTURIES*. . . Undergraduate and graduate; credit two hours. Daily except Saturday 9. Professor MARCHAM.

This course will deal with the role of the British peoples in recent world affairs. Special attention will be given to the government, economic activities, and geography of Great Britain, Canada, and Australia as they relate to the problems and policies of the United States.

S 15. *CHINESE HISTORY*. . . Undergraduate and graduate; credit two hours. Daily except Saturday 12. Professor LACH.

A general survey of the history of Chinese civilization.

S 18. *THE WEST IN AMERICAN HISTORY*. . . Undergraduate and graduate; credit two hours. Daily except Saturday 9. Professor GATES.

A history of the westward movement with special attention to settlement, land policies, agricultural problems, credit and farm mortgages, the removal of the Indians, transportation, sectionalism, frontier democracy, irrigation, the last frontier, the "dust bowl," erosion, and farm relief.

S 20. *RECENT AMERICAN HISTORY: 1900-1946*. . . Undergraduate and graduate; credit two hours. Daily except Saturday 11. Professor GATES.

Emphasis will be placed on the growth of manufacturing, mining, and commerce, labor problems, conservation, the extension of social controls, the great depression, the New Deal, America in two world wars.

S 30. *RECENT HISTORY OF THE FAR EAST*. . . Undergraduate and graduate; credit two hours. Daily except Saturday 10. Professor LACH.

A study of the political, social, and economic background of international relations in Eastern Asia.

S 300. *SEMINAR IN AMERICAN HISTORY*. . . Graduate; credit and hours to be arranged. Professor GATES.

Students working on critical papers, theses, or other research in history may register for this course.

SOCIOLOGY AND ANTHROPOLOGY

A 20. *SOCIAL PROBLEMS*. . . Undergraduate and graduate; credit two hours. Prerequisite, the equivalent of an introductory course in Sociology or permission of instructor. Daily except Saturday 11. Professor ANDERSON.

Problems of conflict and disorganization in our changing society, such as crime unemployment, insanity, social stratification, poverty, and the impact of war upon society. Institutions for relief, self-help, and social planning.

S 28. *PROBLEMS IN RACIAL AND CULTURAL GROUP RELATIONS*. . . . Undergraduate and graduate; credit two hours. Prerequisite, the equivalent of an introductory course in Sociology or permission of the instructor. Daily except Saturday 8. Professor STANDING.

A sociological study of the problems of racial and ethnic group relations in this country and techniques for dealing with these problems. Special attention will be given to selected groups.

S 44. *COMMUNITY BACKGROUNDS OF EDUCATION*. . . Undergraduate and graduate; credit two hours. Prerequisite, the equivalent of an introductory course in Sociology or permission of the instructor. Daily except Saturday 9. Professor STANDING.

A study of group inter-relations in the American community as a context for the analysis of the social problems of educational institutions.

S 60. *SOCIAL ANTHROPOLOGY*... Undergraduate and graduate; credit two hours. Prerequisite, the equivalent of an introductory course in Sociology or permission of instructor. Daily except Saturday 12. Professor Hsu.

Problems in the comparative and historical study of cultures, both primitive and complex; environments and technologies; social structures; familial, political, economic, religious, and associational; ritual and symbolic behavior; culture and personality; cultural interests and the problems of divergent interests within and between cultures.

S 64. *CONTEMPORARY CHINESE SOCIAL ORGANIZATION*... Undergraduate and graduate; credit two hours. Prerequisite, permission of instructor. Daily except Saturday 10. Professor Hsu.

Analysis of the structure and functioning of contemporary Chinese society. Special attention will be given to current social changes and problems occasioned by these changes.

A 208. *SYSTEMATIC SOCIOLOGY*... Undergraduate and graduate; credit two hours. Prerequisite, permission of instructor. Daily except Saturday 10. Professor ANDERSON.

A systematic presentation of modern sociological concepts and theories.

HOME ECONOMICS

The courses in the Summer Session of the New York State College of Home Economics are planned primarily to meet the needs of teachers, extension workers, social service workers, and others who deal with homemaking practices and problems. Courses aim to strengthen the home economics background of these groups, to discuss problems pertinent to the situations in which they work, and to help them meet these problems more adequately.

Since Summer Session students in the field of Home Economics constitute a mature group, largely made up of professional persons, the approach in courses, even those of an introductory nature, is quite different from that in courses of similar title offered during the regular college year. Hence most of the courses are marked "graduate". Undergraduates are occasionally admitted to those courses, but only by permission of the instructor; such permission should be secured by correspondence with the instructor in advance of registration.

In the following pages, courses in Home Economics are listed by departments alphabetically arranged. In registering, students should give the course number, the name of the department, and the title of the course. All courses in Home Economics are given in Martha Van Rensselaer Hall.

CHILD DEVELOPMENT AND FAMILY RELATIONSHIPS

E 310. *PRINCIPLES FOR CHILD GUIDANCE*... Graduate (undergraduates may be admitted by permission of instructor); credit two hours. No prerequisite but a basic course in child psychology is desirable. Discussions daily except Saturday 8. Nursery School observations, three hours a week, to be arranged with the instructor during registration. Professor WARING.

The behavior of young children and the influence of adults upon their learnings will be observed and studied as a basis for developing principles of guidance. Observations, to include typical activities, will be scheduled at different hours of the day. Fee, \$5.

E 312. *PHYSICAL AND MOTOR DEVELOPMENT*... Graduate (undergraduates may be admitted by permission of instructor); credit two hours. No prerequisite. Daily except Saturday 9. Professor TRAINHAM.

This course deals with the changes that occur in the body during the growth period and with the corresponding changes that occur in what the individual can do with his body. The landmarks of physical and motor development, the relationships between them and their implications for parents and teachers will be discussed. Fee, \$5.

E 330. *PARTICIPATION IN NURSERY SCHOOL*...Graduate; credit two hours. Limited to twelve students. Open to home economics teachers, and other students with qualifications satisfactory to the instructor. Prerequisite or parallel, course in child guidance. For each hour of credit there will be required a total of thirty hours of supervised participation in the nursery school and several conferences each week with staff members. Laboratory hours to be arranged. Conference, M W 12. Assistant Professor RUDDOCK.

Observation and study of young children in their homes and in the nursery school group. Participation in their care and guidance. Some experience is offered in planning a child-activity program in cooperation with staff and parents concerned. Fee, \$5.

E 380. *THEORY AND TECHNIQUES OF FAMILY COUNSELING*...Graduate; credit two hours. Prerequisite, a course in Dynamics of Personality or Family Relationships and Personality Development, or by permission of instructor. Limited to fifteen students. Daily except Saturday 11. Professor ROCKWOOD.

For teachers and others who want to understand the place of counseling in human relationships and who want to become more effective in counseling. Consideration will be given to the directive and non-directive approach and to the process of counseling. Fee, \$5.

E 430. *RESEARCH IN CHILD DEVELOPMENT AND FAMILY RELATIONSHIPS*...Graduate; credit one or two hours. Registration by permission of the instructor; hours by arrangement. Professors WARING, ROCKWOOD, and TRAINHAM.

E 460. *FAMILY RELATIONSHIPS AND PERSONALITY DEVELOPMENT*...Graduate; credit two hours. No prerequisite, but basic courses in psychology and sociology are desirable. Limited to fifty students. Daily except Saturday 10. Professor ROCKWOOD.

A study of the regular progression in the type of family relationship which the individual sustains to other members of the family throughout the life cycle.

Among the topics considered are the importance of the family experience in the personality development and the socialization of the child; problems of family relationships which are inherent in the structure of the family or which arise out of the current milieu. Fee, \$5.

FAMILY RELATIONSHIPS (see *EDUCATION E 236B*)...Included as a part of the Home Economics Education Workshop. Professor MCGINNIS.

ECONOMICS OF THE HOUSEHOLD AND HOUSEHOLD MANAGEMENT

E 120. *HOUSEHOLD PROCESSES AND EQUIPMENT*...Graduate; credit two hours. Limited to twenty students. Laboratory and discussions, M W F 8-10; T Th 8. Miss CAMERON.

Study of the processes involved in the work carried on in most homes. Examination of various types of equipment, supplies, and materials, with emphasis on their suitability in individual circumstances. Discussions with homemakers, manufacturers, distributors, engineers, and others. Fee, \$2.

E 240. *ECONOMIC BACKGROUND FOR CONSUMER EDUCATION*...Graduate; credit two hours. Lectures and discussions, daily except Saturday 10. Assistant Professor ATKIN.

The responsibilities of consumers in our economic organization. The scope of information and experience needed in order to function effectively. Consumer edu-

cation programs and the contributions that home economists can make. Evaluation of teaching materials. Fee, \$1.

E 250. *MANAGEMENT PROBLEMS IN FAMILY MEALS*...Graduate; credit two hours. Discussions and laboratory, M T W F 11; Th 11-1. Miss CAMERON.

Analysis of management problems in planning and preparing family meals. Examination of available information. Assembling of guides helpful to teachers and home-makers in managing. Fee, \$1.

E 330. *MANAGEMENT IN RELATION TO PERSONAL FINANCES*...Graduate and undergraduate; credit two hours. Daily except Saturday 3. Assistant Professor AIKIN.

Information useful to individuals in handling their financial affairs, including earning, saving, investing, insuring, borrowing, and spending. The importance of changes in outside conditions and in personal circumstances. The interrelationship of financial problems and other problems met in managing. Fee, \$1.

HOME MANAGEMENT (see *EDUCATION A 236B*)...Included as a part of the Home Economics Education Workshop. Miss ACHESON.

FOOD AND NUTRITION

E 130. *NUTRITION, ELEMENTARY COURSE*...Undergraduate; credit two hours. Lectures and discussions, daily except Saturday 9. Associate Professor STEININGER.

The significance of food selection in achieving and maintaining health. Emphasis on the nutritional needs of normal adults, the nutritive value of various foods, and the construction of adequate diets. Fee, \$2.

E 229. *RECENT FINDINGS IN NUTRITION*...Graduate and undergraduate; credit two hours. Prerequisite, Food and Nutrition 130 or the equivalent. Lectures and discussions, daily except Saturday 11. Associate Professor STEININGER.

Planned for students who wish to bring up-to-date their information about nutrition. Fee, \$2.

E 305. *TECHNIQUES AND PRINCIPLES OF DEMONSTRATION*...Graduate and undergraduate; credit two hours. Registration by permission of the instructor. Limited to twelve students. Discussions and laboratory, daily except Saturday 9-11. Assistant Professor FOSTER.

A course emphasizing the purposes and techniques of demonstrations in food preparation and nutrition as used in teaching, extension, business, and social service. Fee, \$10.

E 310. *SCIENCE APPLIED TO FOOD*...Graduate and undergraduate; credit two hours. Prerequisite, courses in chemistry and in food preparation satisfactory to the instructor. Limited to sixteen students. Lectures, M Th 2-3:30. Laboratory, T F 2-4:20. Assistant Professor BRIANT.

A study of the relation of scientific information to principles of food preparation. In the laboratory this information will be applied to food preparation procedures. Fee, \$10.

HOUSEHOLD ART

E 250. *SELECTION AND ARRANGEMENT, CARE AND REPAIR OF FURNISHINGS*...Graduate (undergraduates may be admitted by permission of the instructor). Planned mainly for extension workers and teachers. Credit two hours. An additional laboratory may be arranged for students wishing three hours of credit. Limited to fifteen students. Discussion, laboratory, and field trips, M W F 9-12. Assistant Professor COMSTOCK.

What to look for in choosing home furnishings; how to arrange furnishings to best advantage; care of furnishings; minor repair and construction problems.

Students should bring furniture needing minor repairs in order to have it later for their own use as demonstration material. Make application to Assistant Professor Ruth B. Comstock, Martha Van Rensselaer Hall, not later than May 30. Letters will go to applicants not later than June 10, listing supplies to be brought. Cost of materials, minimum \$5. Fee, \$4 a credit hour.

E 315. *HOUSING PROBLEMS*...Graduate and undergraduate. Credit two hours. Limited to fifteen students. Lectures, discussion, and laboratory, M W F 2-5. Assistant Professor BAIRD.

Study of the over-all interdependency between house, garden, neighborhood, and society; and discussion of social philosophy which can meet the challenge for a wholesome living environment. Introduction to house planning, through elementary problems in space arrangement and construction. Fee, \$8.

INSTITUTION MANAGEMENT

E 230. *QUANTITY COOKERY: PRINCIPLES AND METHODS*...Graduate and undergraduate; credit three hours. Registration by permission of the instructor. Limited to twelve students. Prerequisites, elementary courses in institution management, nutrition, and food preparation. Discussion and laboratory, M W F 8-1. Miss CUTLAR.

Quantity preparation of the major foods for the home economics cafeteria where approximately 2,000 persons are served each day; use, operation, and care of institution cooking equipment; observation of management and personnel problems; menu planning and recipe costing. The student is expected to apply what has been taught in prerequisite courses including basic principles and procedures of food preparation, food chemistry, marketing, and nutrition. Fee, \$10.

E 300. *SPECIAL PROBLEMS*...Graduate; credit one or two hours. Credit and hours to be arranged individually. Registration by permission of the instructor. Professor PARK.

Independent advanced work on a problem not dealt with by other courses in the department. Fee determined by the problem.

E 320. *INSTITUTION MANAGEMENT, REFRESHER COURSE*...Graduate; credit two hours. Registration by permission of the instructor. Prerequisites, undergraduate preparation in institution management or dietetics and experience in food administration. Discussion and laboratory, T Th 10-12:30, W 2-4:30. Three observation periods and one field trip will be scheduled in addition to regular class meetings. Professor HARRIS.

The course is offered for persons who have a background of preparation and experience in institution management and who wish to bring themselves up-to-date in this field. Emphasis will be given to source materials, recent research findings, and newer methods of approach to problems of food service administration. Fee, \$2.

E 350. *WORKSHOP IN SCHOOL LUNCH PROBLEMS*...Graduate; credit two hours. Registration by permission of the instructor. Limited to twenty-five students. Lecture and discussion, M W F 8-10, T or Th 2-4. One observation period in the home economics cafeteria and two field trips will be scheduled in addition to the regular class meetings. Professor PARK.

The workshop provides an opportunity for homemaking teachers who are supervising or expect to supervise the school lunch to work on their individual and common problems including the initiation, organization, and evaluation of the school lunch program, its objectives and functions in terms of the community and the school; procedures that make for efficiency in operation with emphasis on the

development and work schedules and records, and the selection and care of the food, furnishings, and equipment. Fee, \$2.

TEXTILES AND CLOTHING

E 130. *TEXTILES: CLOTHING FABRICS*...Graduate (undergraduates may be admitted by permission of instructor); credit two hours. Daily except Saturday 10-12. MRS. NORTON.

A study of textile fibers and their identification through simple laboratory tests; technical information and laboratory practice to develop good buying habits and to encourage proper use and care of fabrics and clothing; consideration of some of the factors involved in the production and consumption of textiles; the study of clothing fabrics in the present-day market as a means of developing aesthetic appreciation of quality and design. Depending upon the experience and interest of students registered special phases of textile subject matter may be developed. Estimated cost of materials, \$3. Fee, \$5.

E 200. *FITTING AND PATTERN MAKING*...Graduate and undergraduate; credit two hours. Daily except Saturday 2-4. Associate Professor HUMPHREY.

A course planned primarily for teachers to give a background of pattern making as it relates to pattern alteration and fitting.

Laboratory problems include the making of a foundation pattern, its use in adapting commercial patterns to individual figures and in developing original designs or make-over problems. Study of proportion and use of line in relation to individual figures. Dress material provided by students. Estimated cost of materials, \$15 to \$25. Fee, \$5.

E 210. *DRESS SELECTION AND DESIGN*...Graduate (undergraduates may be admitted by permission of instructor); credit two hours. Daily except Saturday 10-12. Associate Professor FROST.

A course planned to give opportunity for creative experience and* to help develop appreciation of fine design and skill in achieving beauty of costume in relation to the wearer.

Laboratory practice includes the study of design problems from points of view of personality expression, age, coloring, and figure; experimentation with fabric combinations; color analysis; experience in the use of source material as inspiration for designing and restyling clothes; other problems adapted to the needs and interests of the students. Materials to be provided by the student. Estimated cost of materials, \$5. Fee, \$5.

E 325. *TAILORING*...Graduate (undergraduates by permission of the instructor); credit two hours. Daily except Saturday 8-10. Associate Professor HUMPHREY.

Laboratory problems will include the making of a coat or suit with emphasis on the techniques of tailoring as they apply to construction problems in dressmaking. Materials provided by students. Estimated cost of materials, \$20 to \$30. Fee, \$5.

E 430. *SEMINAR IN TEXTILES AND CLOTHING*...Graduate; credit one hour. Two one-hour periods each week. Hours and room to be arranged. Associate Professor FROST.

Planned to give opportunity for study of current problems in Textiles and Clothing.

PROGRAMS FOR GRADUATE STUDENTS

Offerings in the College of Home Economics are planned not for a single summer but so as to insure an articulated program during the summers of 1946, 1947, and 1948. In the Summer Sessions of 1947 and 1948 courses will be offered in many of the following areas: family relationships and personality development, child guidance and personal counseling, participation in nursery school; science applied to

food, food preservation, nutrition, meal planning; institution management, school lunch; housing, color and design, home furnishings; clothing design and construction, buying of clothing and textiles, science applied to textiles; management in homes, financial problems of families, household processes and equipment, economic information for consumers.

HOTEL ADMINISTRATION

In 1922 Cornell University established, with the cooperation and financial assistance of the American Hotel Association, a four-year course in Hotel Administration for high school graduates desiring to enter the administrative departments of the hotel business. Many hotel proprietors and managers, who have been unable to take a four-year university course, have asked for shorter courses with less formal entrance requirements.

To meet this demand, much of the Summer Session work in Hotel Administration is given in unit courses, one to three weeks in length. A circular giving full details of these courses has been issued and will be sent upon request. For this circular, for other information about the work in this department, *and for admission to these courses*, address Professor H. B. MEEK, *Martha Van Rensselaer Hall, Cornell University, Ithaca, N. Y.*

LANGUAGE

FRENCH

S 3b. *INTERMEDIATE FRENCH*...Undergraduate; credit two hours. Daily except Saturday 9. Dr. BATES.

Prerequisite, French 3a or its equivalent. The course corresponds to the sixth term of preparatory school French. Grammar, composition, and reading.

S 6b. *FRESHMAN FRENCH* (Second term)...undergraduate; credit two hours. Daily except Saturday 10. Dr. BATES.

Prerequisite, French 6a or its equivalent. Students who have had three years of preparatory school French may be admitted with the consent of the instructor. Reading, writing, and grammatical review. The spoken language will be emphasized.

S 7a. *WRITTEN AND SPOKEN FRENCH*...Undergraduate; credit two hours. Daily except Saturday 11. Dr. BATES.

Prerequisite, French 6b or its equivalent. Practice in oral and written expression in French.

GERMAN

S 1b. *COURSE FOR BEGINNERS* (Second Part)...Undergraduate; credit two hours. Daily except Saturday 8. Associate Professor SCHNEIDER.

S 3. *INTERMEDIATE INTENSIVE COURSE*...Undergraduate; credit six hours. Twice daily except Saturday 8 and 12; M T W Th 2:15-3:15. Mr. SCHAEFFER.

S 5. *READINGS IN MODERN GERMAN PROSE*...Undergraduate; credit two hours. Daily except Saturday 9. Associate Professor SCHNEIDER.

LATIN

The work of the six-week Summer Session in the field of Latin study is intended primarily for actual and prospective teachers of the subject in the secondary schools.

A series of advanced courses is offered for those who by their undergraduate training are qualified to enter the Graduate School, or to continue their work therein, as candidates for the degree Master of Arts. Those teachers who by previous training

and experience are similarly prepared to pursue courses in Latin on a graduate level will be admitted to the work of the Summer Session without registration in the Graduate School.

Prospective students, graduate and undergraduate, are invited to correspond with Professor Ralph L. Ward, *Goldwin Smith Hall, Ithaca, N. Y.*, concerning the nature and the scope of the work in Latin. Those who wish to begin their candidacy for the degree of Master of Arts should forward to the office of the Graduate School, on or before June 1, such credentials of undergraduate work leading to the degree of A.B. as will entitle them to admission to the Graduate School.

S 1. GREEK AND ROMAN MYTHOLOGY... Undergraduate and graduate; credit two hours. Daily except Saturday 10. Assistant Professor WARD.

A systematic presentation of the lore of gods and heroes and the chief myths that gathered about them. Lectures will be supplemented by slides from art representations. The course is designed not only for students of Classics but also for students of the modern literatures, the understanding of which may be deepened by a knowledge of Classical mythology.

S 2. HISTORY OF THE LATIN LANGUAGE... For graduates and qualified undergraduates; credit two hours. Daily except Saturday 11. Assistant Professor WARD.

A survey of the principal changes in sounds, forms, vocabulary, and syntax that mark the development of the language from earlier through Classical to later Latin, as illustrated by texts and inscriptions.

S 4. THESES AND INFORMAL WORK... Graduate; credit by arrangement; total credit for thesis will not exceed six hours. Assistant Professor WARD.

The informal work may consist of readings in a Latin or Greek author, chosen after conference with the students.

SPANISH

S 1. ELEMENTARY COURSE... Undergraduate; credit six hours. Twice daily except Saturday 8 and 12, and also M T W Th afternoons 2:15-3:15. Mrs. RODRÍQUEZ-DÍAZ.

The fundamentals of Spanish with special emphasis on acquiring a speaking knowledge of the language. Reading of Spanish prose and practice in composition.

S 3a. SECOND COURSE... Undergraduate; credit two hours. Prerequisite, second year entrance Spanish or the equivalent. Daily except Saturday 9. Mr. IWANIK.

S 6a. FRESHMAN SPANISH: READING, WRITING, AND SPEAKING..... Undergraduate; credit two hours. Prerequisite, third year entrance Spanish or the equivalent. Daily except Saturday 8. Mr. IWANIK.

S 51. ADVANCED COMPOSITION AND ORAL SELF-EXPRESSION... Undergraduate and graduate; credit two hours. Daily except Saturday 9. Professor DALE.

Weekly lectures, the writing of formal and informal compositions, together with class discussions in Spanish of assigned material.

S 52. THE LITERATURE OF SPANISH AMERICA... Undergraduate and graduate; credit two hours. Daily except Saturday 11. Professor DALE.

Lectures in Spanish on the important periods of Spanish-American Literature and the representative writers of each period, together with the reading of selections from the works of outstanding authors.

SUPERVISED STUDY... Graduate; credit one or two hours. Consult Professor DALE.

MATHEMATICS AND PHYSICAL SCIENCE

CHEMISTRY

S 107. *GENERAL CHEMISTRY*... Undergraduate; credit six hours. Lectures and recitations, daily except Saturday 8-10. Laboratory, daily except Saturday 10-1. Assistant Professor HILL and assistants.

This course deals with the fundamental laws and theories of chemistry and the properties of the more common elements and their compounds. Laboratory fee, \$15.

S 205. *INTRODUCTORY QUALITATIVE ANALYSIS*... Undergraduate; credit three hours. Prerequisite, General Chemistry. Must be taken with Chemistry 206. Lectures, daily except Saturday 8. Recitations, T Th 11. Professor LONG and assistant.

A study of the application of the theories of general chemistry to the systematic separation and detection of the common elements and acid radicals.

S 206. *INTRODUCTORY QUALITATIVE ANALYSIS*... Undergraduate; credit three hours. Prerequisite, General Chemistry. Must be taken with Chemistry 205. Laboratory, daily except Saturday 9-1. Professor LONG and assistant.

A study of the properties and reactions of the common elements and acid radicals, and their detection in various solutions. Laboratory fee, \$20.

S 210. *INTRODUCTORY QUALITATIVE ANALYSIS*... Undergraduate; short course; credit three hours. Prerequisite, General Chemistry. Lectures, daily except Saturday 8. Laboratory, daily except Saturday 9-12. Professor LONG and assistant.

A study of the properties and reactions of the common elements and acid radicals, and their detection in various solutions. Laboratory fee, \$15.

S 220. *INTRODUCTORY QUANTITATIVE ANALYSIS*... Undergraduate; credit three hours. Prerequisite, Chemistry 205 and 206 or 210. Must be taken with Chemistry 221. Lectures, daily except Saturday 8. Recitations, T Th 9. Professor NICHOLS and assistant.

A study of the fundamental principles of gravimetric and volumetric analysis with practice in stoichiometry.

S 221. *INTRODUCTORY QUANTITATIVE ANALYSIS*... Undergraduate; credit three hours. Prerequisite, Chemistry 205 and 206 or 210. Must be taken with Chemistry 220. Laboratory, daily except Saturday 9-1. Professor NICHOLS and assistant.

Laboratory practice in the preparation and standardization of various volumetric solutions and the analysis of a variety of substances by volumetric and gravimetric methods. Laboratory fee, \$20.

S 225. *INTRODUCTORY QUANTITATIVE ANALYSIS*... Undergraduate; short course; credit four hours. Prerequisite, Chemistry 205 and 206 or 210. Lectures, daily except Saturday 8. Laboratory, daily except Saturday 9-12. Professor NICHOLS and assistant.

A study of the fundamental principles of gravimetric and volumetric analysis, and the analysis of various substances by these methods. Laboratory fee, \$15.

S 305a. *INTRODUCTORY ORGANIC CHEMISTRY*... Undergraduate and graduate; credit three hours. Prerequisite, General Chemistry; Qualitative Analysis is desirable but not required. Lectures and written reviews, daily except Saturday 8, and also daily except Saturday 9, during the first three weeks. Assistant Professor CAIN.

The lectures discuss systematically the more important compounds of carbon, their methods of preparation, reactions, and interrelations. The work covered is equivalent only to the first half of the year course. The second half, Chemistry 305b, will be offered in the fall term.

Students who wish a complete course should register for Chemistry 375.

S 310a. *INTRODUCTORY ORGANIC LABORATORY*...Undergraduate and graduate; credit three hours. Prerequisite or parallel course, Chemistry 305a. Laboratory experiments and oral reviews, daily except Saturday 10-12:30. Assistant Professor CAIN and assistant.

Introduction to laboratory techniques, preparation of typical organic compounds and examination of their properties and reactions. Laboratory fee, \$20.

S 305b. *INTRODUCTORY ORGANIC CHEMISTRY*...Undergraduate and graduate; credit three hours. Prerequisite, Chemistry 305a. Lectures and written reviews, daily except Saturday 8, and M W F 9. Assistant Professor SWEETING.

A continuation of Chemistry 305a.

S 310b. *INTRODUCTORY ORGANIC LABORATORY*...Undergraduate and graduate; credit two or three hours. Prerequisite or parallel course, Chemistry 305b. Conferences, T Th 9. Laboratory, daily except Saturday 10-12:30, hours to be arranged in the mornings. Assistant Professor SWEETING.

Laboratory preparations in continuation of Chemistry 310a. Laboratory fee, \$20.

S 320. *ADVANCED ORGANIC LABORATORY*...Undergraduate and graduate; credit two hours. Prerequisite, Chemistry 310b. Laboratory experiments and library assignments, hours to be arranged in the mornings. Assistant Professor SWEETING.

Advanced laboratory work involving more difficult techniques and the less common reagents; consultation of the original literature. Laboratory fee, \$15.

S 375. *ELEMENTARY ORGANIC CHEMISTRY*...Undergraduate; credit six hours. Prerequisite, General Chemistry; Qualitative Analysis is desirable but not required. Lectures, daily except Saturday 8-10. Laboratory, daily except Saturday 10-12:30. Assistant Professor CAIN and assistant.

A short course in organic chemistry adapted especially for students in the pre-medical, biological, agricultural, and home economics curricula. Laboratory fee, \$15.

S 405a. *INTRODUCTORY PHYSICAL CHEMISTRY*...Undergraduate and graduate; credit three hours. Prerequisite, a knowledge of calculus, elementary physics and elementary organic chemistry. Lectures, daily except Saturday 8, and T Th 9. Associate Professor HOARD and assistant.

A systematic presentation of the principles of physical chemistry. The topics include: the properties of gases, liquids, and solids; physical and chemical equilibrium in homogeneous and heterogeneous systems; the mass law, theorem of LeChatelier, and the phase rule; thermochemistry and elementary thermodynamics; the theory of solutions; ionic equilibria; chemical kinetics; problems in physical chemistry.

S 410a. *INTRODUCTORY PHYSICAL CHEMISTRY*...Undergraduate and graduate; credit three hours. Prerequisite or parallel course, Chemistry 405a. Recitation, W 9. Laboratory, daily except Saturday 9-1. Associate Professor HOARD and assistant.

Qualitative and quantitative experiments illustrating the principles of physical chemistry and practice in performing typical physico-chemical measurements. Laboratory fee, \$15.

S 530. *INTRODUCTORY CHEMICAL MICROSCOPY*....Undergraduate and graduate; credit three hours. Prerequisite, Physical Chemistry or special permission. Lectures, M W F 10. Laboratory, M W F 11-1, T Th 10-1; additional periods to be arranged. Professor MASON.

Microscopes and their accessories, as applied to problems in chemistry and technology. Micrometry and particle size determination; quantitative analytical methods; microscopical characteristic and physical chemistry of crystals; lens systems and photomicrography; study of industrial materials such as textile and paper fibers. Laboratory fee, \$5.

S 535. MICROSCOPICAL INORGANIC QUALITATIVE ANALYSIS... Undergraduate and graduate; credit two or three hours. Laboratory practice. Prerequisite or parallel course, 530. Professor MASON.

Students not desiring University credit, who wish to obtain a working knowledge of chemical microscopy in less than the six weeks of the Summer Session, may arrange by advance correspondence with the instructor to cover the parts of both of the above courses that best meet their needs.

GEOLOGY AND GEOGRAPHY

Lecture Courses:

S 1 and S 5. GENERAL GEOLOGY AND PHYSIOGRAPHY... Introduction to Earth Science. Given as two correlated courses, as indicated below, either of which may be taken separately for two hours credit, but which, taken together, for four hours credit, constitute the lecture and textbook part of Geology A as given in the regular session. S 1 and S 5, together with S 9 and S 10, 6 hours credit, are counted the equivalent of Geology A, the six-hour basic course in elementary general geology and physiography. Courses S 5 and S 9 and S 10 are counted the equivalent of Geology 100.

S 1. DYNAMIC GEOLOGY AND PHYSIOGRAPHY... Undergraduate; credit two hours. Daily except Saturday 8. Professor VON ENGELN.

The content of this course includes the topics: history of geological ideas; processes of weathering and their results on land-forms; action of streams and valley forms; the morphology of deserts; oceanography; marine erosion; mountain topography; phenomena of glaciers and glaciation; nature of continents and ocean basins; geological climates; orogenies.

The lectures are illustrated by lantern slides and are correlated with study of a textbook. Students registering in Course S 1 are advised to take also Course S 5 and, for a general course in elementary geology, should, further, take Courses S 9 and S 10.

S 5. PETROLOGIC, STRUCTURAL, AND HISTORIC GEOLOGY... Undergraduate; credit two hours. Daily except Saturday 11.

Lectures and correlated textbook readings upon the following topics: origin of the earth; materials of the earth's crust and their arrangement; diastrophism; earthquakes; vulcanism; structural phenomena; metamorphism; origin of mountains; ground water; caves; age of the earth and geological time periods; the fossil record; origin of man.

S 11. GENERAL GEOGRAPHY... Undergraduate and graduate; credit two hours. Daily except Saturday 10. Professor VON ENGELN.

In the lectures the fundamental concepts of geography, direction and position, are considered in connection with map projections and map reading; the regions of the world are discussed in terms of climatic types generally, and then, in particular, with reference to political divisions. The tropical belt of lands is given special attention. The concepts of geopolitics are outlined in their relation to current world problems. The lectures are supplemented by textbook and atlas study to insure appreciation of the broad principles of environmental geography and a knowledge of place locations.

Laboratory and Field Courses in Geology and Physiography:

S 9. GEOLOGY LABORATORY COURSE... Undergraduate; credit one hour. W F 1:40-4.

This course is designed to supplement courses S 1 and S 5. A study is made of the commoner rocks and minerals; of the commoner structural phenomena; of the interpretation and uses of topographic and geologic maps; and of the characteristic life forms developed in the different geological periods. Laboratory fee, \$1.

S 10. *GEOLOGY AND PHYSIOGRAPHY FIELD COURSE*... Undergraduate and graduate; credit one hour. M 1:40-4:30 and two Saturdays, all-day.

This course should be elected by all students in courses S 1 and S 5 who desire to secure an appreciation of field-observation and field-interpretation of geologic and physiographic phenomena.

Students are required to take field notes and to write a report on each excursion. Marks are based on the contribution made by the student to the field discussions and on the degree of excellence of the reports submitted. Mimeographed outlines of the excursions are to be secured from the bookstores by each student.

Each excursion entails some cost for bus fare. For first excursion bring 10c. An inclusive rate will be announced then for the rest of the trips and is to be paid in advance, probably \$7 to \$9. First excursion Monday, July 8.

Outline of Excursions:

CASCADILLA GORGE. Monday, July 8.

SNYDER HILL. Monday, July 15.

NORTHERN PENNSYLVANIA. Saturday, July 20. (All-day trip)

PORTLAND POINT. Monday, July 22.

SAND DUNES OF LAKE ONTARIO. Saturday, July 27. (All-day trip)

ENFIELD GORGE AND FALLS. Monday, July 29.

TERMINAL MORaine; KAME, ESKER, AND OUTWASH DEPOSITS. Monday, August 5.

Further details regarding these excursions may be obtained on registration day.

MATHEMATICS

S 60a. *ANALYTIC GEOMETRY AND CALCULUS*... Undergraduate; credit three hours. Prerequisite, Trigonometry. Daily 8.

A beginning course in the subject.

S 60b. *ANALYTIC GEOMETRY AND CALCULUS*... Undergraduate; credit three hours. Prerequisite, Mathematics 60a or the equivalent. Daily 10.

S 60c. *ANALYTIC GEOMETRY AND CALCULUS*... Undergraduate; credit three hours. Prerequisite, Mathematics 60b or the equivalent. Daily 12.

S 140. *THEORY OF NUMBERS*... Undergraduate and graduate; credit three hours. Prerequisite, Mathematics 60b or the equivalent. Daily 8. Professor JONES.

A study of the properties of divisibility, linear and quadratic congruences, primitive roots, and other topics.

S 200. *ELEMENTARY DIFFERENTIAL EQUATIONS*... Undergraduate and graduate; credit three hours. Prerequisite, Mathematics 60c or the equivalent. Daily 10.

A beginning course in the subject.

S 300. *SYNTHETIC EUCLIDEAN GEOMETRY*... Undergraduate and graduate; credit three hours. Daily 9. Professor JONES.

A course which deals with plane Euclidean geometry by means of more advanced methods than those used in the usual high school course and with stress on original proofs. Topics dealt with include: general methods of construction, similar and homothetic figures, properties of the triangle and nine-point circle.

In the summer of 1947 the department plans to offer a course in projective geometry, one in determinants and matrices, and one or more other courses later to be announced.

METEOROLOGY

A 1a. *METEOROLOGY*... Undergraduate and graduate; credit two hours. Lectures and discussions, daily except Saturday 10. Professor MORDOFF.

This course is adapted to the needs of teachers and students in subjects in which the weather is an important factor, particularly teachers of general science, physical geography, and agriculture. It is designed to acquaint the student with the laws governing the primary and secondary circulation of the atmosphere, and with the development, progression, and conditions that attend cyclones, tornadoes, and other atmospheric phenomena. Attention is given to the principles and practice of weather forecasting from weather maps and from local observations. Students taking the course at the graduate level will be assigned additional work.

A 1b. *METEOROLOGY, LABORATORY COURSE*... Undergraduate and graduate; credit one hour. T Th 11-1, or other periods to be arranged. Must be accompanied by course A 1a. Professor MORDOFF.

The work consists in the study of the principal weather and climatic elements with the aid of maps, charts, and instruments. The various meteorological instruments will be studied, as well as the methods of taking and recording the observations. Opportunity will be given the student for making practice forecasts. Students taking the course at the graduate level will be assigned additional work.

A 2. *GENERAL CLIMATOLOGY*... Undergraduate and graduate; credit one hour. Lectures and discussions, M W F 11. Should be accompanied or preceded by course A 1a. Professor MORDOFF.

This course is designed to give a general knowledge of Climatology, and of the various climates of the United States, with emphasis on those of New York State.

A 6. *SPECIAL PROBLEMS*... Undergraduate and graduate; credit and hours by arrangement. Professor MORDOFF.

Special work in meteorology and climatology may be elected by qualified students with the permission of the instructor.

PHYSICS

S 7. *INTRODUCTORY EXPERIMENTAL PHYSICS*... Undergraduate; credit four hours. Lectures, M T W Th 9. Recitations, M T W Th F S 11. Laboratory, M W F 1:40-4. Assistant Professor NEWHALL and assistants.

Demonstrations, theory, problems, and experiments covering the subjects of mechanics, wave motion, heat, and sound. Laboratory fee, \$5.

S 11. *INTRODUCTORY EXPERIMENTAL PHYSICS*... Undergraduate; credit four hours. Prerequisite, Calculus or simultaneous registration in Mathematics 60a. Entrance physics desirable but not required. Lectures, recitations, and laboratory as in Physics S 7. Assistant Professor NEWHALL.

Course content similar to Physics S 7. Required of students in Engineering. Laboratory fee, \$5.

S 83. *INTERMEDIATE AND ADVANCED LABORATORY PHYSICS*... Undergraduate and graduate; credit one to three hours. Prerequisite, an introductory college course in Physics. The laboratory will be open daily except Saturday from 1:40-4. Associate Professor TOMBOULIAN and Messrs. BUECHE and HERRING.

The experiments will be chosen to meet the needs and previous experience of the student. For those students of less experience, the emphasis will be placed on physical principles and a wide range of topics provided. Experiments in mechanics, properties of matter, heat, sound, light, and electricity may be performed. For the student who has had considerable experience in physical measurements, apparatus and equipment are available for work in a wide variety of fields. The student will work in-

dependently on a group of experiments selected to meet his individual requirements. Laboratory fee, \$5 for each laboratory credit hour.

S 90. *GENERAL PHYSICS FOR TEACHERS*... Undergraduate and graduate; credit four hours. Prerequisites, one year of college physics and a working knowledge of algebra and plane trigonometry. Registration in course is subject to approval of instructor. Recitations, daily except Saturday 11. Two 2½-hour laboratory periods and two 1½-hour conference periods a week as assigned. Associate Professor TOMBOULIAN.*

The course is intended as a survey of topics which have been prominent in recent developments in physics. Selection will be made from the fields of electron and atomic physics. It is designed primarily for teachers of physics but may be taken by other qualified students.

S 123. *ELECTRICITY AND MAGNETISM*... Undergraduate and graduate; credit three hours. Prerequisite, knowledge of Calculus and electrical circuits. Daily 8.

Electrostatic and electromagnetic fields, polarization of dielectrics and magnetic media, displacement current, plane electromagnetic waves, the Poynting vector.

PHYSICAL EDUCATION

S 18a. *PRIVATE INSTRUCTION IN TENNIS*. No credit. For men and women. Hours to be arranged. Mr. LEWIS. A special fee is charged, \$10 for ten lessons.

S 18b. *PRIVATE INSTRUCTION IN GOLF*... No credit. For men and women. Hours to be arranged. Mr. HALL. A special fee is charged. \$15 for twelve lessons.

PSYCHOLOGY AND MENTAL HYGIENE

PSYCHOLOGY

S 1. *ELEMENTARY PSYCHOLOGY*... Undergraduate; credit two hours. Daily except Saturday 9. Professor DALLENBACH.

The course will be accepted as a prerequisite for subsequent courses and may be credited toward the satisfaction of the major requirement in psychology. The basic problems and principles of human psychology. The course is designed as a foundation for the study of experimental, social, animal, and child psychology, for psychotechnology and for the psychology of the abnormal. Textbook: Boring, Langfeld and Weld, *Psychology: A Factual Textbook*.

S 6. *MEMORY, SKILL AND WORK*... Undergraduate and graduate; credit two hours. Daily except Saturday 11. Professor DALLENBACH.

A study of fundamental experiments and principles. Lectures and readings.

S 8. *SOCIAL ATTITUDES, PUBLIC OPINION, AND PROPAGANDA*... Undergraduate and graduate. No prerequisite except Introductory Psychology, although some training in Elementary Statistics and Social Psychology is desirable. Credit two hours. M T W 9, and one afternoon laboratory period to be arranged. Dr. BITTERMAN.

The construction and application of scales for the measurement of attitude and opinion. Techniques of propaganda and propaganda analysis. Survey of the experimental literature.

S 15. *ABNORMAL PSYCHOLOGY*... Undergraduate and graduate; credit two hours. Daily except Saturday 8 or 11. Professor LIDDELL.

Physiological and psychological aspects of mental disorder in war and peace.

A 22. *GENETIC PSYCHOLOGY*... Undergraduate and graduate; credit two hours. Daily except Saturday 10. Assistant Professor BAYNE.

Man's behavioral development through infancy, childhood, adolescence, maturity,

and old age. The emphasis will be upon securing a clear picture of the individual life-course and its several stages. The study of the development of behavior in relation to general psychology.

S 51. *INDUSTRIAL PSYCHOLOGY*... Undergraduate and graduate; credit two hours. Prerequisite, Introductory Psychology. Daily except Saturday 10. Dr. BITTERMAN.

The contributions of experimental psychology to selected industrial problems: vocational selection, industrial production, training methods, merit rating, advertising, and market research.

MENTAL HYGIENE

S 1. *MENTAL HYGIENE*... Undergraduate and graduate; credit two hours. Daily except Saturday 9. Dr. DARLING. Permission of the instructor should be obtained before registering for this course.

The human being considered as a psychobiologic unit in a complex environment. Discussion of (1) general personality structure, (2) maladjustment factors functioning at different ages from infancy through life, (3) the more common maladjustment symptoms and mental illnesses and their prevention.

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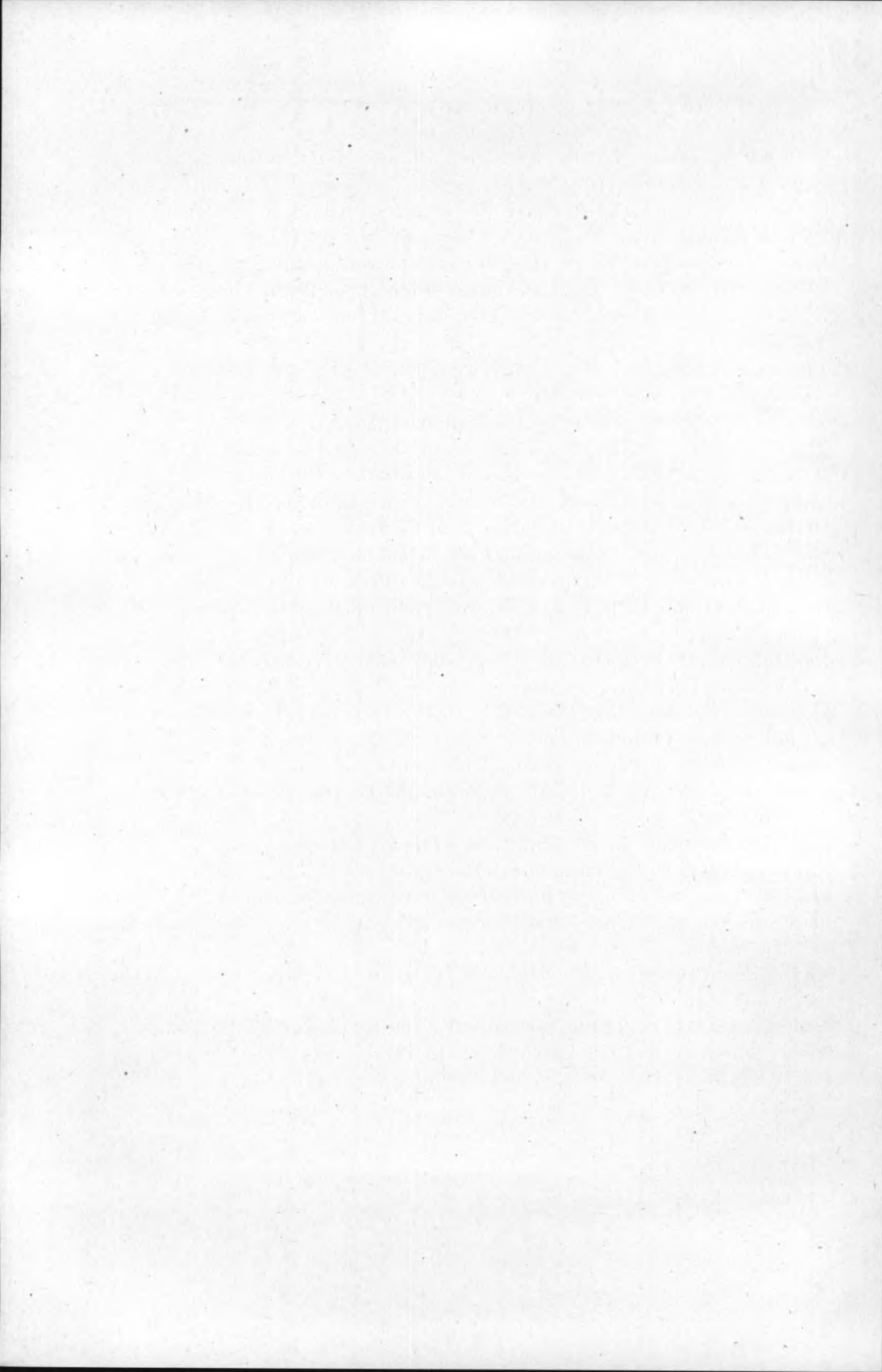
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INDEX

- Academic Credit, 7.
- Administration, Educational, 26.
- Administrative Board, 53.
- Admission.
 - Application for, 4, 61.
 - Colleges of Cornell University, 8.
 - Graduate School, 4, 9.
 - Hotel Administration Courses, 44.
 - Summer Session, 4.
- Agricultural Economics, 22.
- Agricultural Education, 27.
- Agricultural Engineering, 22.
- Agriculture, College of, 8.
- Arrangement of Subjects, 21.
- Art History, 36.
- Arts and Sciences, College of, 8.
- Attendance.
 - Registration for, 6.
- Auditors' Permits, 7.
- Automobile Regulations, 14.
- Bacteriology, 24.
- Balch Halls, 15.
- Board, 15, 16.
- Botany, 24.
- Cafeterias, etc., 16.
- Calendar, Summer Session, Cover 2, 20.
- Cancellation of Courses, 21.
- Certificates of Summer Record, 9.
- Changes of Registration, 6.
- Chapel, 19.
- Checks, Cashing of, 14.
- Chemistry, 46.
- Child Development, 39.
- Chorus, 19, 37.
- Class Schedules, 21.
- Classrooms, 21.
- Committees, Special, 6, 10, 11.
- Concerts, 19.
- Conduct, Regulations Governing, 14.
- Cost of Living, 16.
- Counseling, 30.
- Credit.
 - Colleges of Cornell University, 8.
 - Graduate School, 5, 9.
 - Institutions other than Cornell University, 8.
 - Maximum, 6, 7.
- Curriculum, 27.
- Demonstration School, 29.
- Deposits.
 - Laboratory, 13.
 - Library 13, 17.
 - With Applications for Rooms, 16.
- Dining Rooms, etc., 16.
- Doctors' Degrees, 11.
- Doctors, Resident, 12.
- Dormitories, 15, 16.
- Drama, 34.
- Drawing, 36.
- Economics, 37.
- Education, 26.
 - School of, 12.
 - Health, 28.
 - Physical, 51.
 - Elementary, 26, 28, 29.
- Educational Measurements, 29.
- Educational Psychology, 29.
- Engineering, College of, 8.
- English, 33.
- Examination Schedule, 21.
- Extension Teaching, 22.
- Faculty, 53.
- Family Relationships, 34.
- Fees, 12.
 - Health Service, 13.
 - Laboratory, Shop, etc., 13.
 - Matriculation, 12.
 - Special Regulations, 13.
 - Tennis, 19, 46.
 - Tuition, 12.
 - Films, 19.
- Fine Arts, 36.
- Floriculture, 23.
- Foods, 41.
- Foreign Students, 15.
- French, 44.

- Genetics, 25.
- Geography, 37.
- Geology, 48.
- German, 44.
- Graduate Courses, 7.
- Graduate School.
 - Admission, 4, 9.
 - Credit, 7, 11.
 - Examinations, 9, 10, 11.
 - Language Requirements, 11.
 - Non-candidates, 12.
 - Registration, 5, 10, 11.
 - Requirements for Degrees, 9, 11.
 - Residence Requirements, 10, 11.
 - Resident Doctors, 12.
 - Special Committees, 6, 10.
- Guidance, 29.
- Health Education, 28.
- Health Service, 17.
- History, 37.
- Home Economics, 39.
 - Education, 30.
- Hotel Administration, 8, 44.
- Household Art, 41.
- Household Management, 40.
- Industrial Education, 31.
- Infirmery, 18.
- Institution Management, 42.
- Journalism, 34.
- Languages, 44.
- Late Registration, 6.
- Latin, 44.
- Lectures, 18.
- Libraries, 17.
- Living Accommodations.
 - Graduate Women, 15.
 - Men, 15.
 - Undergraduate Women, 15.
 - Houses, Apartments, 16.
- Master's Degrees, 10.
- Mathematics, 49.
- Matriculation Fee, 12.
- Maximum Credit, 6, 7.
- Medical Clinic, Student, 17.
- Mental Hygiene, 52.
- Meteorology, 50.
- Motor Vehicles, 5, 6, 14.
- Music, 37.
- Nature Study, 32.
- Non-candidates in Graduate School, 12.
- Nutrition, 41.
- Office of Summer Session, 2.
- Officers, 53.
- Orchestra, 19, 37.
- Ornithology, 25.
- Painting, 36.
- Physical Education, 51.
- Physical Science, 46.
- Physics, 50.
- Psychology, 51.
- Public Events, 18.
- Public Speaking, 34.
- Registration, 5.
 - Change of, 6.
 - For Attendance, 6.
 - Graduate School, 5, 11.
 - Late, 6.
 - Minimum Program, 6.
 - Motor Vehicles, 5, 6, 14.
- Regulations, Special, 14.
- Resident Doctors, 12.
- Residential Halls, 15.
- Risley Hall, 15.
- Rooms.
 - Applications for, 16.
 - Deposits, 16.
- Sage Chapel, 19.
- Schedule, Minimum, 6.
- Schedule of Examinations, 21.
- Schedules, Class, 21.
- Schedules, Room, 21.
- Scholarship Regulations, 14.
- School of Education, 12.
- Science Education, 32.
- Self-support, Means of, 17.
- Social Science, 37.
- Sociology, 38.
- Spanish, 45.
- Special Regulations, 14.
- Speech and Drama, 34.

Speech Clinic, 36.
Sports, 19.
Supervision, Educational, 26.

Teachers' Courses.

Arithmetic.
Agriculture, 27.
English, 28.
History, 27, 28.
Home Economics, 30.
Industrial Education, 31.
Nature Study, 32.
Phonetics, 35.
Physics, 50.
Science, 32.
Speech, 35.

Textiles and Clothing, 43.
Theatre, 19, 35.
Transcripts, 9.
Tuition Fees, 12.

Undergraduate Courses, 7.
Undergraduate Women, 15.
Unit Courses, 7, 21, 44,

Veterans, 3.

Willard Straight Hall, 18.
Withdrawal from Summer Session, 7, 13.
Workshops, 30.

Zoology, 25.

Because the edition of this Announcement is limited, persons planning to register in the Summer Sessions are asked to bring their copies with them.

CORNELL UNIVERSITY SUMMER SESSION, 1946
APPLICATION FOR ADMISSION

Name.....
Family name Full first name Middle name

Address.....
Street and number City or town Zone State

School, College, and Graduate Training:

Please check items to indicate your training, and fill out blanks next following the items checked.

.....High School Graduate

.....
City or town State Year of graduation

.....Now in College or Normal School:

.....
Institution Location To graduate (year)

.....College or Normal School Graduate:

.....
Institution Location Degree Year

.....Now in Graduate School:

.....
Institution Location Degree expected Year

.....Holder of Advanced Degree:

.....
Institution Location Degree or degrees, Year granted

If you have attended a school of a sort not listed above (a technical institute, for example), give pertinent information here.

School Position:

If you hold a position of any kind in a school, college, or other educational institution, please check items to indicate your position and fill in the lines following the items checked.

.....*Teacher*

.....*School* *Location* *Position and subject or grade*

.....*Supervisor, Principal, Superintendent, etc.*

.....*School* *Location* *Position*

.....*Assistant or Instructor in Normal School or College*

.....*Institution* *Location* *Position and subject*

.....*Assistant Professor, Professor, etc.*

.....*Institution* *Location* *Position and subject*

.....*Other School Positions*

.....*Institution* *Location* *Position and subject*

Other Professional, Scientific, or Business Position:

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Reason for Proposed Attendance at Cornell Summer Session:

In not more than two or three sentences state your purpose in attending the Cornell Summer Session.

Proposed Courses:

*Mail this application to the Director of the Summer Session,
Cornell University, Ithaca, N. Y.*